Project Name			
ALL			
Revision		**Release Date**	**Checksum**
BMC	OLD: N/A NEW: N/A	N/A	SUM:0x12438B4F
SMT	OLD:13.06.29 NEW: 13.06.30	2026/09/04	8B4F, 8457, 8257, C417
ZIP	OLD: N/A NEW: N/A	N/A	N/A

DOS Utilities Version					
BMC Version	FRU.exe	SENSEL.exe	KCS.exe	bmcfwud.exe	sdrfru.exe
1.00 ~ now	0.44	0.70	1.0	1.7.0.141	1.24.1.92

GPU Card Support
INTEL: INTEL MIC 225W: 5110P INTEL MIC 245W INTEL MIC 270W: 31S1P INTEL MIC 300W: 3120P, 7120P NVIDIA: M1060, M2090, M2070/2070A, M2075, M2050 K1, K2, K10, K20, K20X, K40/40M, K80, K340, K4000, K5200, M30, M60 M40, M5000, M6000, M4 AMD: S9150, S7150, W7100

Software Component Version			
Component Name	Version	SVN/GIT number	Commit Date
GIGABYTE Kernel	13.06.30	af50883012dddca39d0a060eafdf6d1ab9c73d8a	2026-09-04
Redfish	1.8a	af50883012dddca39d0a060eafdf6d1ab9c73d8a	2026-09-04
Web UI	N/A		
Raid Manager	N/A		
Socflash	1.22.07	r113	2021-04-06
Gigaflash	N/A		
EC	1.1D	r8843	2023-05-09

F –Feature, B – Bug fixed

No.	Type	Issue Description	Note	P
13.06.30(2026/09/04)				P3
1	F	[feature] Add StartTLS support for the General Active Directory Settings.		
2	F	[feature] Synchronize RAID operations with sensor scans and cache updates		
3	F	[feature] Improve the power status icon behavior on the top left of the webpage.		
4	F	[feature] Support ADM1032 remote temperature reading.		
5	F	[feature] Enhance sensor scanning record functionality.		
6	F	[feature] Modify NCT7363 FAN sensor dirver.		
7	F	[feature] Support sensor scan offloading.		
8	F	[feature] Mask alert signals generated by RSM3512		
9	F	[feature] Add pcie device MI350P into list and change R9700 name to R9600_R9700_R9700S		
10	F	[feature] MCTPApp tool supports 'Get Partition Configuration' CMD		
11	B	[merge] Fixed PD JBOD Busy Status Issue Root Cause: When creating a JBOD on a MegaRAID 9560 or an LD on a MegaRAID 9520 or earlier controller, the LD ID start from 0. The existing logic incorrectly treats LD ID 0 as uninitialized, causing the status to remain Busy.		
12	B	[defect] Apply Redis security fix for CVE-2025-49844 with OpenSSL 3.0.19		
13	F	[redfish][feature] Support both formats for TrustedComponents		
13.06.29(2026/08/11)				
1	F	[feature] Add support for displaying the status of TO15/TO16 HDD in the System Event Log (SEL).		
2	F	[feature] Enable RAID LED support for the Microchip Falcon NVMe RAID card		
3	F	[feature] Update the version of the pci.ids.gz file to 2026.08.04.		
4	B	[defect] Fix the HTTP Remote Media mount feature to support Fully Qualified Domain Names (FQDN)		
5	F	[feature] Resolve the false ALERT# throttle issue on power-on for the N164 series by clearing LM5066 faults.		
13.06.28(2026/07/06) Deprecated				P3
13.06.27(2026/06/16)				P3
1	F	[feature] Update the version of the pci.ids.gz file to 2026.06.04.		
2	B	[redfish][feature] Support ECC certificates via Redfish		

3	F	[feature] Add an OEM command to enable/disable SNMP v1/v2c.		
4	F	[feature] Implement false ALERT# throttling on power-on by moving the LM5066 CLEAR_FAULTS to node framework access.		
5	B	[feature] Modify the verification procedure for PLDM NIC firmware updates		
6	F	[feature] Support Broadcom 96xx series RAID card.		
7	B	[feature] Support power-off functionality when a water leak is detected in specific models.		
8	F	[redfish][feature] Support partial update HMC for B200/B300.		
9	B	[defect] Fix the Aries retimer initialization issue.		
13.06.26(2026/03/19)				
1	B	[defect] Fixed an issue where the MCTP service occasionally failed to communicate with the IPMI service, causing the BMC to become temporarily unresponsive to IPMI commands.		
2	F	[feature] Update the version of the pci.ids.gz file to 2026.03.04.		
3	F	[feature] Support for temperature readings: 1. AMD Pollara card 2. Furiosa AI RNGD card 3. Microchip Falcon NVMe RAID card		
4	F	[redfish][feature] Enable support for booting from UEFI HTTP using the HttpBootUri.		
5	B	[defect] Resolve MCTP will consistently reset issues on the Ampere SIRYN platform.		
6	F	[feature] Resolve GPU power to PS_ON signal issues for TO86-SD1-AA05-000 system.		
13.06.25(2026/02/02)				P3
1	B	[defect] Resolve the issue of a BIOS firmware update getting stuck at 99% when the SPI flash is not detected..		
2	B	[redfish][defect] Resolve the BIOS and BMC communication issue to prevent IPMI service issues during power cycles on the AMD Genona platform.		
3	B	[redfish][defect] Resolve the issue of resetting the Redfish BIOS settings to the previous values after a BMC update.		
4	F	[feature] Hide the selection for the SEL Linear Storage Policy from the webpage temporarily.		
5	F	[feature] Support BIOS configuration is preserved during the firmware update for the Intel BHS/EGS platform.		

13.06.24(2025/12/29)				P3
1	B	[defect] Update Phison retimer SDK and resolve update abnormalities.		
2	F	[feature] Support MLAN location configuration via IPMI OEM commands.		
3	F	[feature] Support sensor monitoring for AMD R9700.		
4	F	[feature] Support sensor reading for SMART CXL modules		
5	F	[feature] Trigger throttling upon AC loss in 4+0 PSU configurations.		
13.06.23(Deprecated)				P3
13.06.22(2025/12/11)				P3
1	B	[defect] Correct the issues with the FAN POLICY mechanism.		
2	B	[defect] Resolve the issue of the GPU sensor randomly disappearing after a cold machine reset. (B200/B300)		
3	B	[defect] Resolve CVE-2019-14202 issue		
4	F	[feature] Align the sorting of NIC inventory slots with the PCI inventory.		
5	F	[redfish][feature] Support query parameters are forwarded to the HMC.		
13.06.21(2025/11/24)				P3
1	B	[defect] Fixed issue with sensor display showing abnormalities when the SDR.dat file exceeds 16K.		
2	B	[defect] Resolved the failure of the web session timeout feature on the WebUI Services for the BHS platform.		
3	F	[feature] Added support for MI350X/MI355X GPU modules on the inventory webpage.		
4	F	[feature] Included the AI PRO R9700 PCIe device in the list.		
5	F	[feature] Enabled BIOS configuration preservation during firmware updates for AMD Genoa/Turin.		
6	F	[redfish][defect] Corrected the power reading value, which sometimes displayed as 0.		
7	F	[feature] Added support for retrieving Aries retimer information and firmware updates.		
8	F	[redfish][feature] Enhanced support for BIOS KMIP via Redfish.		
13.06.20(2025/10/21)				P3
1	F	[feature] Add verification for firmware descriptions before updating BMC firmware		
2	F	[feature] Display the sampling period on the power consumption page.		
3	B	[redfish][defect] Resolve the issue with inventory parsing.		
4	F	[redfish][feature] Support remote changes to the BIOS logo. Note: Support is only available in BIOS versions of Intel Birch Stream or AMD Turin.		

5	F	[redfish][feature] Increase the waiting time for power soft actions during the HMC update procedure for B200/B300 models..		
6	F	[redfish][feature] Enable BIOS secure erase of HDD via Redfish.		
13.06.19(2025/10/15)				P3
1	F	[feature] Add PHY Keep Link Up control IPMI OEM command		
2	F	[feature] Control "keep phy link" funciton on Intel onborad NICs for fixing the issue of constant disconnection when using NCSI		
3	F	[feature] Providing functionality to retrieve information from the Phison retimer and to update the retimer firmware.		
4	F	[feature] modify to 32 front HDD and 2 rear HDD for model R284-S91-AAJ1-000.		
5	F	[feature] update PCI device list.		
6	F	[feature] Add G894-SG1-AAX1-000 to Gaudi3 supported SKU list		
7	F	[feature] Add HL338 (Vendor ID=0x1DA3 Device ID=0x1063) to accepted PCI-E card.		
8	F	[feature] webui gpu inventory show GAUDI3 gpu pci card info		
9	F	[redfish][feature] Reduce /conf usage.		
10	F	[feature] Display sampling period in the power consumption page.		
13.06.18(2025/08/29)				P3
1	F	[redfish][feature] Support AuthenticationModes setting for host-interface.		
2	B	[redfish][defect] Occasionally, the inventory parsing function does not work.		
3	F	[feature] Use a hardware watchdog reset instead of a software reboot in process manager.		
13.06.17(2025/08/14)				P3
1	F	[feature] WebUI PSU Information insert the PSU states again to ensure the normal presentation.		
2	F	[feature][PFR] Fix out-of-memory issue when updating capsule in PFR mode.		
3	F	[feature] Add hot key F1 F3 F9 F10 F12 into webui SOL		
4	F	[feature] Add the function of INTEL BHS ACD enable/disable trigger front-end & back-end code.		
5	F	[feature] Update the pci.ids.gz file version to 2025.06.21.		
6	F	[feature][PFR] Support CPLD update via web in PFR mode		
7	F	[feature] Support Mellanox CXL		

8	F	[feature] Correct the timestamp in the system log		
9	F	[feature] Add new GPU cards support in PCI Device List manually		
10	F	[feature][PFR] Add a reserved block from 63MB to 64MB to prevent SKU update failure		
11	B	[defect][PFR] Fix CFM/AFM config loss		
12	F	[redfish][feature] Adjust HMC write protect pin locking condition for B200 update flow.		
13	F	[redfish] Replace IPMI power cycle with soft power off and power on in HMC FW update flow.		
14	F	[feature] Remove GCT Diagnostic Analyzer webpage.		
15	B	[defect] Ignore special characters from the SMBIOS in the HDD Inventory to prevent CSS syntax errors.		
16	B	[defect] Resolve FRU edit issue on MGX platform.		
17	F	[feature] Improve the information synchronization of the RAID Manager		
13.06.16(2025/04/30)				P3
1	B	[defect] Update the mail message for drive inserted event.		
2	F	[feature] Avoid triggering the STATUS_LED to amber due to OEM SDR.		
3	F	[feature] Enhance stability of the shared memory mechanism.		
4	B	[redfish][defect] Fix the issue of the fan mode's half mode having a low speed setting.		
5	F	[feature] merge Nick MCTP modify and CXL reading from branch v13.06_CXL_test		
6	F	[feature] show correct AmpereOneX EEPROM BSD version on webui		
7	F	[feature] merge TO25 node get fan addr code from other branch		
8	F	[feature] Modify TO25 read dimm ts1.		
9	F	[feature] Update the message for unsupported add-in-card GPU modules.		
10	F	[feature] Modify get system GUID command respands data from smbios type 1.		
11	F	[feature][PFR] Add the PCA9545 MUX slave address to the whitelist of I2Cfilter0		
12	F	[feature] Save the MLAN switch configuration to the local file.		
13	F	[redfish][feature] Support Gaudi3 multipartpush update OAM_CPLD		
14	F	[feature][merge] SPX6795 [CVE][LTS-v13] Update OpenSSH for security issues		
13.06.15(2025/04/23)				P3
1	F	[feature] Support displaying the MI325X GPU in the inventory.		
2	F	[feature] Update the error message for firmware image verification.		

3	F	[feature] Avoid triggering the CPU throttle SEL when doing power on/off stress.		
4	F	[feature] Improve the response time of the fan control		
5	F	[feature] Update PCI device ID table		
6	B	[defect] Resolve Power capping issue on AMD Turin.		
7	F	[feature][PFR] Adjust the offset of the recovery region and redefine the PFM		
8	F	[feature][PFR] Support flashing a dual image to the first 64MB of BMC flash2 in PFR mode		
9	F	[feature] Improve WebUI performance when raid supported.		
10	F	[redfish][feature] Support Gaudi3 multipart push update OAM_CPLD		
11	B	[feature] Modify get system GUID command response data from smbios type 1.		
12	F	[feature] Support DIMM temperature from AMD AMPL TS1.		
13	F	[feature] Improve Realtek configuration to avoid BMC MLAN disconnect rarely		
14	F	[feature] Upgrade Openssl to 3.0.		
13.06.14(2025/02/14)				P3
1	F	[feature] Change RTC battery sensor periodic time.		
2	F	[feature] Support MHS system		
3	B	[defect] Remove Broadcom P210TP card from SPECpower white list..		
4	B	[defect] Resolve system reboot issue on MI300A system		
5	F	[feature] Decrease the CPU status response time		
6	F	[feature] Support Gaudi3/Qualcomm GPU Card		
13.06.13(2025/01/14)				
1	B	[defect] Resolved randomly GPU sensor lost after mc reset cold.		
2	F	[redfish] Support chassis sensors from Gaudi3 module.		
3	F	[redfish] Support UBB_RETIME update on Gaudi3 module.		
4	F	[feature] Disable FMC_WDT2 before triggering BMC recovery mechanism.		
5	F	[feature] Add Intel Birchstream ACD to support CPU type 'SRF'.		
6	F	[feature] Support IPv6 router function on Redfish and WebUI		
7	F	[feature] Support AmpereOneX EEPROM BSD version.		
8	B	[defect] Resolved CPLD version issue on specific systems		
9	F	[feature] Update the newest PCIe devices list		
10	F	[feature] Modify PSU/Drive remove and inserted log.		
11	F	[feature] Add IPMI OEM command to enable Intel OS2BMC feature.		

13.06.12(2024/12/19)				
1	F	[redfish][feature] Send changed BIOS setting value to BIOS when corresponding .json file exists.		
2	B	[defect] Fix: some snmp sensor will temporarily disappear during sensor value update.		
3	F	[redfish][feature] Add SensorType property of discrete sensor for SNMP.		
4	F	[feature] Add support for maximum power consumption of 3840W for PSUx_PIN		
5	F	[feature][PFR] Change Root and CSK Key		
6	B	[defect] Fix the issue of incorrect timestamp in date input for GMT timezone without city.		
7	F	[feature][PFR] Dynamically set BMC PFM version		
8	F	[feature][PFR] Add OEM command to support PFR version		
9	F	[redfish][feature] Modify the response message of Oem API: HMCUpdate.PrepareFreeMemory.		
13.06.11(2024/11/19)				P3
1	F	[feature] Remove 128-bit TLS ciphers for security reasons.		
2	F	[feature][PFR] Add OEM command to get BIOS active/recovery PFM version		
3	F	[defect] Provide TLS certificates starting from 2024.		
4	F	[feature] Support RAID events in SEL Log		
5	F	[feature] Support H200/ RTX4000_Ada into list for thermal		
6	F	[feature] Support disable/enable command for chassis intrusion detected		
7	F	[redfish][feature] Support additional PSUx_PIN info for SNMP service.		
8	B	[redfish][defect] Fix memory leak problem during RAID API Stress test.		
9	F	[feature][PFR] 1. Support AST1060 PFR solution. 2. Add a feature for the AST1060 PFR BMC/BIOS FW recovery status SEL event.		
10	B	[defect] Resolved WebUI IPv6 and IPv6 DHCP option abnormal.		
11	F	[feature] AmpereOneX RAS error reporting to BMC SEL log		
12	F	[feature] Improve Radius access in different privileges		
13	F	[feature] Support graceful shutdown for AMPERE platform		
14	F	[feature] Support power limit function for the BHS platform.		
15	F	[feature] Add sensor type "Power Supply" for SNMP get sensor reading.		
16	M	[merge] Support MGX_x86 platform		
17	F	[feature] WebUI GPU inventory support get the GAUDI3 GPU module info		
18	F	[redfish][feature] Support update Gaudi3 UBB_CPLD		

19	F	Add switch bios sel when System failed to boot after fail-safe triggered for Ampere platform.		
20	F	remove MCU(RAS) CE sel because BIOS will trigger RAS CE event when normal boot for Ampere platform..		
13.06.10(2024/09/12)				
1	B	[defect] Avoid PSU data ignore the first byte		
2	B	[defect] Fix NVAPI exceeding the declared range when GPU is in SLOT16.		
3	B	[defect] Fix sometimes BHS platform cannot power on issue.		
4	B	[defect] Improve the power limit function for the BHS platform.		
5	B	[defect] Increase the size of the sensor name array (reserve for a null character) to avoid unexpected actions when handling string.		
6	F	[feature] Add new device id RTX_A5500 into pci_devices.json		
7	F	[feature] Clear flag when DCMI set power limit fail.		
8	F	[feature] Update gigaflash to 2.0.12		
9	F	[redfish][feature] Support monitoring IMC sensor reading.		
10	B	[redfish][defect] Display the NVMe manufacturer name		
13.06.09(2024/09/02)				P3
1	F	[feature] Support chassis intrusion feature on BMC side.		
2	F	[feature] AmpereOne RTC WakeUp function support		
3	B	[defect] Resolve PSU firmware update issue.		
4	F	[feature] Change PSU AC lost LED status from warning to critical		
5	F	[redfish][feature] Add OperatingSystem in Systems		
6	F	[feature] Update pci.ids.gz file version 2024.06.23		
7	F	[feature] Add Enable/Disable SCMP via IPMI OEM cmd.		
8	B	[defect] Resolve the reset default issue of DCMI power readings.		
9	F	[feature] Add new SMTP msg for BIOS/BMC SEL log.		
10	B	[defect]Resolve power capping issue in AMD platform		
11	F	[redfish][feature] Let Boot patch supported by both Systems/Self and Systems/Self/SD		
12	B	[defect] Resolve BMC update issue on WebUI.		
13	F	[redfish][feature] Support monitoring IMC sensor reading.		
14	F	[feature] RE: 6NR182P91DR-00-2U3X Conan TPM Card Test Fail.		
15	B	[redfish][defect] fix PATCH DateTime and DateTimeLocalOffset return error		
16	B	[defect]Modify NVMe installed/removed SEL to correct event_assertSeverity		
17	B	[redfish][defect] correctly displays the NVMe manufacturer name		

13.06.08(2024/07/23)				P3
1	F	[feature] Add new BIOS SEL log.		
2	F	[feature] Increate FAN speed with BPB for MB validation in production.		
3	F	[feature] Add OEM cmd to get PowerCapacityWatts function		
4	B	[defect] To Resolve the button inconsistent issue between the front panel and WebUI.		
5	B	[defect] Fix the location Port number sorting issue on WebUI HDD Inventory.		
6	B	[defect] Make sure the conf partition is not mounted when conf recovering.		
7	B	[defect] Fix the power limit function abnormal when CPU power is over 255W on the BHS platform.		
8	B	[defect] Fix the WebUI DCMI power value issue.		
9	F	[feature] Adjust chassis intrusion behavior.		
10	F	[feature] Support SOL feature on MI300A.		
13.06.07(2024/06/28)				P3
1	B	[defect] GCT Diagnostic Analyzer issue: 1. Fix HDD info parsing issue. 2. Change PSU info to the same with PSU Information page. 3. Support info get BIOS2 version.		
2	B	[defect] Fix DDR4 dimm temp fail.		
3	B	[redfish][defect] Fix error Image path with HTTP/HTTPs method.		
4	F	[feature] Adjust iptables blocking rules to prevent blocking a specific IP address when attempting to block all traffic.		
5	F	[feature] Create OEM cmd and modify case open function to chassis intrusion.		
6	F	[redfish][feature] 1) Display raw BIOS inventory data. 2) Let inventory data parser can parse BiosAttributeRegistry data when data is missing.		
7	F	[feature] Merge AMI 'RMedia HTTPS Support' commit front-end codebase.		
8	F	[feature] Add the function to get APU power reading.		
13.06.06(2024/06/14)				P3
1	B	[defect] Temporarily disable the Intel CUPS feature for BHS.		
2	F	[feature] Add read DIMM page command		
3	F	[redfish][feature] Redfish’s Updateservice supported CPLD update now		
4	B	[defect] Fix DIMM SEL log display 'unknown' DIMM error.		
5	F	[feature] Support 64MB file size image for BIOS TFTP/SFTP/HTTPS/HTTP update.		
6	F	[redfish][feature] add the property for network bond mode on Managers		

7	F	[redfish][feature] Support the property of RedundancyEnabled could be PATCH		
8	B	[redfish][defect] Fix: the property of name and manufacturer under drive and simplestorage page show wrong data		
9	B	[defect] Fix the issue where getting raid controller information will take a long time.		
10	F	[redfish][feature] Support VirtualMedia option for AccountTypes property.		
13.06.05(2024/05/24)				P3
1	B	[defect] Fix mDNS cannot be enabled.		
2	F	[feature] Support CPU power reading/limit function for the BHS platform.		
3	F	[feature] Support APU sensor reading for MI300X		
4	F	[feature] Merge AMI Vulnerabilities for CVE-2023-3043,CVE-2023-29755.3, CVE-2023-5678 5.3, CVE-2023-31085, CVE-2023-6606, CVE-2023-31130, CVE-2023-48795, CVE-2023-46218.		
5	B	[defect] Support HDD inserted/removed event.		
6	F	[feature] Add random delay boot up feature with specific CPLD version.		
7	F	[feature] Change Preserve Configuration page behavior.		
8	F	[feature] Add more attributes on HDD inventory from the PCI inventory.		
9	F	[feature] Support Turin CPU sensor reading.		
13.06.04(2024/04/26)				P3
1	F	[redfish][feature] Support new OneShot BIOS Inventory data exchange mechanism through shared memory.		
2	F	[feature] Synchronize Slot Number Name in PCI Inventory with HDD Inventory and BIOS NVMe config.		
3	D	[defect] Fix the issue of the web UI hanging on the NIC Inventory		
4	F	[feature] Send system wakeup to CPLD when CPU thermal trip log		
5	D	[defect] Fix KVM abnormal after doing BMC warm reset sometimes.		
6	F	[redfish] Adjust domain name with TLD length is 7 on AD page		
7	F	[feature] Add new DIMM ECC threshold mechanism		
8	D	[defect] Fix SNMP configuration not syncing to Redfish from WEBUI.		
9	D	[defect][redfish] Update the PSU input power value when the 2U4N system power on/off.		
10	F	[feature] Fix to update image list for windows CIFS share.		
11	F	[redfish][feature] Add GPUEventLog for LogServices to collect SMC event logs.		
12	D	[defect] Fixed current power higher than maximum power by IPMI dcmi command.		

13	D	[redfish][defect] Fix the path error when mounting iso via HTTP.		
14	F	[feature] Support BIOS update via TFTP/SFTP/HTTPS/HTTP.		
13.06.03(2024/03/26)				P3
1	F	[redfish][feature] Add support of MI300X IBC temp sensor.		
2	B	[redfish][defect] Fixed an issue where InventoryDataInfo page data missing and InventoryData page crash.		
3	F	[feature] Add support of auto selecing previous timezone in 'Date & Time' page.		
4	F	[feature] Add support of skipping i2c sensor scan when there are errors on certain i2c buses.		
5	B	[defect] Fixed an issue where MLAN sometimes can't get an IP address on H273 chassis		
6	B	[defect] Fixed an issue where checksum of 2nd BIOS on BHS platform is wrong		
13.06.02(2024/03/08)				P3
1	F	[feature] Update the memory ECC SEL log message		
2	F	[feature] Add support of ACD for Intel BHS platform		
3	F	[feature] Add support of creating KVM session by rest API		
4	B	[defect] Fixed an issue where wrong SMBIOS data causes PCIe inventory page of BMC Web UI to hang		
5	F	[feature] Add support of RAID status in dashboard of BMC Web UI		
6	F	[feature] Add support of DIMM temperature reading for Intel BHS platform		
7	F	[feature] Add support of PCI/GPU inventory support for MI300 GPU module		
8	F	[feature] Add support of Winbond SPI flash		
13.06.01(2024/01/23)				P4
1	F	[feature] Update Ami Spx code base to v13.6		
2	F	[feature] Add support of FRU data syncing for multi-node system		
3	F	[feature] New category layout and friendly operation in WebUI		
4	B	[feature] Improve PLDM sensor-related functions for Ampere platform.		
5	F	[feature] Add a reserve option in FRU0 data when updating SKU.		
6	B	[feature] Add support of 128MB flash for dual BMC platforms.		
7	F	[feature] Modify the style of webUI to keep the style is consistent with GSM		
8	F	[feature] Add retry mechanism when updating CPLD.		
9	F	[feature] Support IPMI OEM cmd to control the individual fan.		
10	F	[redfish][feature] Make request body can take ResetType on host interface.		

13.05.08(2023/11/10)				P4
1	F	[feature] Add support of flash chip GD25R256E		
2	F	[redfish][feature] Add support of ClearLog action for LogServices/HMCEventLog.		
3	F	[feature] Update the algorithm of nvme sensor driver reading		
4	F	[feature] Add support of multiple raid cards.		
5	F	[feature] Add support of reading dual image versions from ipmi cmd		
6	F	[feature] Add support of clear external SKU function in Web UI's SKU update page.		
7	F	[feature] Remove mount HTTP image option in Web UI		
8	F	[feature] Update gigaflash to v2.0.9.		
9	F	[feature] Update the sorting algorithm of Web UI PCIe card inventory		
13.05.07(2023/09/21)				P5
1	F	[feature] Patch CWE-321, CVE-2023-37293, CVE-2023-37297, CVE-2023-37296, CVE-2023-37295, CVE-2023-37294, CVE-2023-3043, CVE-2023-34333, CVE-2023-34332, CVE-2023-34473, CVE-2023-34472, CVE-2023-34471, CVE-2023-34338, CVE-2023-34337, CVE-2023-34330, CVE-2023-34329, CVE-2023-28863, CVE-2022-40259, CVE-2022-40242, CVE-2022-40258, CVE-2022-26872.		
2	F	[feature] Update severity of SEL log "HMC temp mismatched with SMBus." from critial to warning.		
3	F	[feature] Update pci ids for AMD GPU card MI210.		
4	F	[feature] Update VR VOUT sensor threshold of AMD platform		
5	F	[feature] Display SEL raw data in SMTP email.		
6	F	[feature] Update the platform ID of Genoa GSC platforms.		
13.05.06(2023/08/25)				P5
1	F	[feature] Update the fw boot ok gpio to GPIOX6 X7 for Ampere project		
2	B	[defect] Fixed an issue where hostname can't be set in Web UI		
3	B	[redfish][defect] Fixed an issue where HMC redirect function sometimes response error 501		
4	B	[defect] Fixed an issue where sometimes power limit is not able to set on AMD platform		
5	F	[feature] update gigaflash to v2.0.8		
13.05.05(2023/08/23)				P5
1	F	[feature] CMC can now get network interface via lan mode settings.		
2	F	[feature] Support NCSI only mode settings on H273 system nodes		

3	F	[feature] Add oem sel log when hmc temperature mismatched with SMBus.		
4	F	[redfish] Let redfish can set LDAP config in SSL encryption mode with or without giving CACertificate.		
5	F	[feature] Add lan status sensor driver.		
6	F	[feature] Add FPGA info to GPU inventroy page.		
7	F	[feature] Change to use Hexadecimal to display GPU Information Vendor ID and Device ID.		
8	F	[feature] Add LDAP SSL certificate enable/disable option.		
9	B	[defect] Fix smtp send mail fail.		
10	F	[feature] CMC can now get network interface via lan mode settings.		
13.05.04(2023/08/10)				P6
1	F	[feature] add new oem cmd to send/get node/CMC IPV6 to every node and add CMC IPV6 info on node bmc webui		
2	B	[defect] Fix sel log is incorrect about blue screen code log.		
3	F	[feature] update the sdr P_0V85 LNC 0.595		
4	F	[feature] Modify AMD set Power Consumption function and add APML_CTDP.		
5	F	[feature] Support Gigabyte factory OCP jig card.		
6	B	[defect] fix temp value reading is 0 when no raid card		
7	B	[defect] Sensor not read by PLDM if MCTP not get correspond EID device.		
8	F	[feature] add new device id HGX_H100 to pci_devices.json		
9	B	[defect] Fix i3c-dimm read fail.		
13.05.03(2023/07/28)				P6
1	B	[defect] Modify support multi PCIE nic card for PLDM over PCIE.		
2	B	[defect] Add lost code to fix bmc connect issue when IPv6 source is static.		
3	B	[defect] update pci_devices.json to add new device L40S		
4	B	[redfish] Support dump hmc commands and OEM API: HMCTaskService.		
5	B	[redfish] Let redfish redirect to hmc should give correct username and password.		
6	B	[redfish] Using latest bios staic files in /conf		
7	B	[redfish][defect] Let processes of hmc service not killed by IPMIMain.		
8	B	[redfish][defect] Fix: procmontor respawning hmc-monitor / hmc-sensor-monitor will fail and cause bmc restart.		
9	B	[redfish] Let hmc event log 'ResourceEvent' can be transfered to echo server by EventService.		
10	F	[feature] support fake url Managers/1		

11	B	[defetc] Get redfish PowerInputWatts when pin sensor exist.		
12	B	[defect] Fix WebUI GPU Slot Number index display bug.		
13	B	[defect] Merge ami's patch: Addressed stack overflow and heap memory corruption in adviserd		
14	B	[defect] Adjust web max timeout value.		
15	B	[defect] Add Asmedia ASM1062R PCIE card in skip list for enable cold redundant		
16	F	[feature]Add an oem get command to check PreROT mode is enable or not		
17	B	[redfish][defect] redfish no show latest Registry Data because location path is changed.		
18	B	[redfish][defect] 1. Fix /redfish/v1 crash caused by name of variable unmatched. 2. Let redirect to hmc method could return raw data for hmc dump file.		
19	B	[defect] Fix error send power down deasserted sel when read gpio power_good fail.		
20	B	[defect] Modify LLDP for support system value.		
21	B	[defect] add get FP ID LED status cmd		
22	B	[defect] check button for block schedule function item or not		
13.05.02(2023/06/28)				P7
1	F	[feature] Optimized the SEL display in Web UI		
2	B	[redfish][defect] Fix: AssetTag of Chassis/Self and Systems/Self doesn't sync with Product Asset Tag of FRU0		
3	B	[defect] The 2U4N model power input and status is from CMC. It will cause redfish get double power supplies members.		
4	B	[defect] Add oem sel log define to redfish		
5	F	[feature] Add CX4 lan status.		
6	B	[defect][merge] Fix Montage DDR5 DIMM's I3C can't work.		
7	B	[defect] Fix MCTP service and IPMB on the same I2C bus will cause a timeout to communicate with ME issue.		
8	B	[defect] fix FirmwareInventory display wrong BIOS version issue		
9	B	[redfish][feature] support to preserve BMC config and set default value to true		
10	B	[redfish][defect] read FwInfo2 checking backup BMC exist or not to avoid UpdateService init fail		
11	B	[redfish][defect] change SKU item to display SKU version of /redifsh/v1/Systems/Self		
12	B	[defect] Add Ampere One Erratum AC_03_SOC_4 Workaround solution.		

13	B	[detect] add NCSI Intel OEM command to keep PHY up.		
14	F	[feature] Add detect rtl8365 loopback.		
15	B	[defect] Change CPLD Programming PIN (GPIOL5) set method for open-drain and check current state first to avoid unexpected low pulse.		
16	F	[feature] Add an oem command to enable or disable PreROT mode.		
17	B	[defect] fix merge error to cause timezone default not UTC+0		
18	B	[defect] LogService action not meet AMI api spec		
19	B	[redfish][defect] add missed attribute for Storage Controller of inventory R08		
20	B	[redfish][defect] Let redfish Systems/Self can display correct PowerRestorePolicy.		
21	B	[redfish] Support fake url Systems/1 and Chassis/1		
22	B	[redfish][defect] Fix: System Model name will be set to wrong value after updating sku and run inventory backup procedure.		
23	B	[redfish][defect] Fix: hmc related sensor reading from webui will accidentally set to 0.		
24	B	[defect] Fix the rule of the ISO image whose file name contains the - character on image redirection page.		
25	B	[defect] Fix rtl8365 no link down.		
26	B	[defect] Add redfish manager support for lldp.		
27	B	[defect] Fix set power limit can't work for AMD platform.		
28	B	[defect] Merge AMI's patch: Added LDAP username validation with respect to * symbol.		
29	F	[feature] support to use redfish modify/create account with KVMIP permissions		
30	B	[defetc] Remove redfish MB_CPLD2 firmware inventory.		
31	B	[defect] Bios.ResetBios not meet AMI API spec		
32	B	[defect] fix some GPU Inventory info issue 1. nvqual run fail 2. redis memory is full 3. can not mount KIRIN iso		
33	F	[feature] Add oem command for check 2nd BIOS flash exist or not.		
34	F	[defect] Modify PEF string display problem caused by an importing JSON file error.		
35	F	[defect] Fix when open KVM, sr0 will auto mount.		
36	F	[defect][merge] Modify PSU FRU ID follow PSU sensor name.		
37	F	[defect] Temporarily remove PLDM link from sidebar.		
13.05.01(2023/05/18)				P8
1	F	Update Ami Spx code base to v13.5		

13.04.19(2023/05/10)				P8
1	B	Add new condition for fake driver to set usb1 ip		
2	B	[defect] 1. Edit wrong Ampere name define from 'SRYIN' to 'SIRYN'. 2. Separate the define of Ampere 'Quick_Silver' and 'SIRYN'. 3. Fix Ampere Altra platform WebUI shows 'Power diag' option in power control page.		
3	B	[defect] change the nvparm to old version		
13.04.18(2023/04/27)				P8
1	B	[redfish] 1. Get valid vendor name and device name with libpci for PCIeDevice of BIOS Inventory. 2. Correct the link to storage controller for PCIeFunction of BIOS Inventory.		
2	B	[redfish] Add fool-proof mechanism before update MB_CPLD and BPB_CPLD.		
3	B	[redfish] Trigger syncagent getFWInfo with local redis instead of global db to avoid side-effect.		
4	B	[defect] Media redirection for mounting ISO file whose file name contains the - character.		
5	B	[defect] add GPU Device ID RTX6000_Ada to pci_devices.json		
6	B	[redfish][defect] update @odata.etag when patching to BIOS SD		
7	B	[defect] update gigaflash to v2.0.6		
8	B	[defect] Fix error SEL log issue after update backup BMC HPM via IPMI.		
9	B	[defect] Fix cannot update BMC HPM after update BIOS HPM via IPMI.		
10	B	[defect] fix AMD platform not show SimpleStorage URI		
11	B	[defect] fix redfish show error power reading for Intel		
12	B	[defect]Fix some of redfish raid information didn't display.		
13.04.17(2023/04/13)				P9
1	B	[redfish][defect] Fix logical error.		
2	B	[redfish] generate cpld item after 3 minutes of powering on if BPB_CPLD1 url is missing.		
3	B	[redfish] Update firmwareinventory item for CPLD after 3 minutes of powering on.		
4	B	[redfish][defect] Fix: storage links in SimpleStorage can not link to valid resource uri.		
5	B	[redfish][defect] make sure it will reboot when HPM_BMC updating fail		
6	B	[defect] Avoid BPB CPLD update fail when the host is just powered on.		
7	B	[defect] Fix sensor abnormal issue when the number of entry nodes exceeds 255 in devmaps.		
13.04.16(2023/03/22)				P9

1	B	[redfish] Modify schema version in redfish metadata to fix validator fail for HMC.		
2	B	[redfish] Retrieve hmc related items every 1 minute for redirect hmc method.		
3	B	[redfish] support to display MACAddress in /redfish/v1		
4	B	[defect] Fix the issue of after Firmware update and click confirm it won't redirect to login page.		
5	B	[defect] fix the ampere power limit function can be useful		
6	F	[feature] Support apml dimm pwr.		
7	F	[feature] redfish add HTTP method for mount iso		
13.04.15(2023/03/06)				P10
1	B	[defect] hide gpu inventory detail information		
2	F	[feature] add EDSFF status sensor driver		
3	F	[redfish] Support redirect method for NVAPIs: SoftwareInventory		
4	B	[defect] add new device ID : RTX4090 of pci_devices		
5	B	[redfish] clear cache when init hmc data done.		
6	B	[defect] modify RAID INFO Chnl by newest request		
7	B	[defect] Fix BMC sensors name are incorrect in SEL file.		
8	B	[redfish] 1. Add lock_fw_update during hmc update 2. Use polling functio to support hmc update		
9	B	[defect] fix temp value is 0 when no raid card		
10	B	[defect] Fix webui SOL Configurations show wrong page		
13.04.14(2023/02/23)				P10
1	B	[defect] Add suspend resume and config_aneg function for rtl8365 kernel driver and modify return value to 0 to avoid kernel panic.		
2	F	[feature] add new IPMI RAW command for set and get ip addr		
3	B	[defect] Fix-memory-leak-problem.		
4	B	[redfish] 1. Add Nvidia Redfish Schema 2. Support HMC GPU Chassis Info with preload method 3. Support HMC LogServices with redirect method 4. Fix some validator fail		
5	B	[redfish] Add HMC Event Listener to collect event log from HMC.		
6	B	[redfish] Add Manufacurer for PSU info. Support Absent status when PSU is absent.		
7	B	[redfish] Support displaying some PMBUS_INFO on PowerSupplies page.		
8	B	[redfish] Add WakeOnLANEnabled and AssociatedMACAddresses of Ports to inventory debug page.		
9	B	[redfish] Remove NetworkPorts from NetworkAdapters page.		

10	B	[redfish] Add Ports of NetworkAdapters to inventory debug page. Add Ports collection uri to NetworkAdapters page.		
11	B	[redfish] Remove IndicatorLED to match driver schema.		
12	B	[defect] Remove sync agent sleep it will cause sync-agent crash when run account stress test.		
13	B	[defect] Fixed power supply vin/pout value incorrect and always update vin/pout value.		
14	B	[defect] If there are no pcie model name then get class device name.		
15	B	[defect] Don't show gpu manager url when model don't have A100 GPU.		
16	B	[defect] Add Unknown value when there aren't no correspond data for pcie device Manufacturer/Model.		
17	B	[defect] Parsing VID/DID for get Manufacturer Model Name.		
18	B	[defect] Follow ami code for mapping redfish sensor number and member id.		
19	B	[defect] merge code from AMI to fix NTP stucking problem when connection fail		
20	B	[defect] Remove redundant ipmi command to avoid ipmisyncredfish crash when modifying account		
21	B	[defect] merge AMI code base to fix webui forgot password function		
22	B	[defect] update hpm sample conf for master bios and backup bios		
23	B	[defect] fix Video Recording not work on Pre-reset mantis 57498		
24	B	[Merge] LDAP SSL and STARTTLS not failed with invalid certificate.		
25	B	[defect] Fix event_log backgroundcolor fail Add judge by event_type.		
26	B	[Merge] AMI Merge : restrict having reserved ipmi user in post and patch request payload in redfish APIs		
27	B	[redfish] 1. Remove gbt chassis related code use redirect method instead of pre-load method to support NVAPI(Chassis) 2. Remove hmc related members from collection when system power off		
28	B	[redfish] 1. Support redirect hmc redfish (Systems/Managers/Chassis/Fabrics/ComponentIntegrity/FirmwareInventory) 2. Add redfish oem schema NvidiaLogService		
29	B	[defect] Modify don't show unknown sensor name in sel log.		
30	B	[defect] Hide WebUI 'IPMI Over KCS' function by judging whether it is ARM platform.		
31	B	[defect] Add Ampere 'Quick_Silver' define to ARM platform judgement.		
32	B	[defect] Hide Firewall Expert setting because of incomplete functionality.		
33	B	[defect] Add ATOS Model Raid info support.		

34	B	[defect] fix power cycle not send power off deasserted sel log.		
13.04.13(2023/01/12)				P11
1	B	[CVE] Patch CVE-2022-32265, CVE-2022-3602 and CVE-2022-3786.		
2	B	[defect] Fix the bug that sometimes BMC not able to acquire IP on RTL8365 supported models.		
3	B	[redfish] Support redfish partially update for HMC components.		
4	B	[redfish][defect] Fix the bug that sometimes BIOS inventory parsing fail after ac cycle.		
5	B	[redfish] Support Current State(Systems/Self) and Future State(Systems/Self/SD) for redfish boot items.		
6	F	[feature] FRU's default manufacturer name now display as "Giga Computing".		
7	B	[redfish] Fix the bug that sometimes Redfish service causes memory leak		
8	F	[feature] Add power diag function in Web UI		
9	F	[feature] Web UI’s SEL list now displays color according to serverity		
10	F	[feature] Implementing PBKDF2 Password hashing support for Redfish Authentication		
11	B	[defect] Modify P_VDDCR_CPU_AM5 lower threshold to n/a.		
13.04.12(2022/12/9)				P12
1	B	[defect] Fix vMedia download speed when using NCSI connection		
2	F	[feature] Support delta-module sensors for ES/QS firmware.		
3	B	[defect] Fix cannot read DIMM temperature sometimes on Genoa platform		
4	B	[defect] Patch CVE-2022-2827.		
13.04.11(2022/11/24)				P12
1	B	[defect] fix redfish get vmedia info fail		
2	B	[defect] fix Ampere SCP FW update failed under certain circumstances.		
3	B	[defect] fix redfish crashed sometime when initialing raid/hba cards.		
4	B	[defect] Fix WebUI HDD Inventory list name not sync with smbios..		
5	B	[Merge] Merge videcap-ARM-AST-src package from AMI code base. (LTS-v13 0ebec96e) 1.Fix to check video driver proc files. 2.Fixed clk handling logic w.r.t SDKv08.03 video driver. 3.Fix for medium impact issue		
6	B	[defect] fix redis server memory leak problem		
7	B	[defect] 1. Fix PSU files mapping are incorrect. 2. Fix PSU6 status sensor return NA.		
8	F	[defect] Clear hmc QS firmware related sensor redis key when power off.		
9	B	[feature] Add GPU information function		

10	B	[feature] Update pci.ids.gz file version 2022.10.28.		
11	B	[feature] Support Phison HDD Manufacturer information on web ui.		
12	B	[defect] webui HDD Inventory support Micron Manufacturer		
13.04.10(2022/11/08)				P12
1	B	[defect] Fixed SCM CPLD update failed under some circumstances		
2	B	[defect] Fix ipmi self-test command failed when FRU is zero.		
3	B	[redfish][defect] fix validator UpdateService & Redundancy missing		
4	F	[feature] Update WebUI HDD location mapping format (Compatible with older BIOS).		
5	B	[defect] add adc sdr for AMD AM5 cpu.		
6	F	[redfish] Support update QS firmware sensor readings		
7	B	[defect] support get GPU_TEMP_LIMIT NVSwitch PCIeRetimer PCIeSwitch FPGA temp from redfish		
8	F	[feature] SSH connection to BMC is disabled by default, and also updated the default password.		
9	F	[feature] Support BIOS flash W25Q256JWEQ.		
13.04.09(2022/10/26)				P3
1	F	[feature] Set default of bond0 primary is eth0.		
2	F	[feature] Enable EHCI(USB port B) feature and add usbnet kernel drvier module.		
3	F	[redfish] Modify spx for installing hmc-sensor-monitor		
4	F	[redfish] Add hmc-sensor-monitor		
5	F	[Merge] Merge miss code from V13.3 for enable sensor scan after get raid ld info from web ui.		
6	F	[Merge] Merge from V12 Reload api(configuration/project) and filter features when click refresh button on settings page		
7	B	[defect] Add power off event to redfish log.		
8	B	[defect] Add PCIe error log to redfish log and some of message/severity information bug has been fixed.		
9	F	[feature] Modify segment number and WebUI HDD location mapping in WEBUI sel log.		
10	B	[defect] Modify to support more then PSU FRU.		
11	B	[redfish][defect] Change display of updating info under UpdateInformation		
12	B	[defect] Stop run dhcp6c-script when update bpb cpld to avoid update failed.		
13	B	[defect] add device 3080Ti to pci_devices		
14	B	[defect] Make space allowed again in Bind DN setting.		

15	F	[feature] Merge V12 SNMP Trap code to V13.		
16	B	[defect] after BIOS update : check and start Component Manager		
17	B	[defect] use ipmi update hpm scp after pull-high GPIOR3(139) high		
18	B	[defect] Change COMPTYPE definition INDEX to Sync V12 and V13 component type. by ricky		
19	B	[defect] update the tca9539 value for BMC reboot will cause os off or os restart		
20	B	[defect] add switch Mlan oem command		
21	B	[defect] Enable http redirection even when ALLOW_NON_SECURE_COMMUNICATION is diabled in PRJ.		
22	B	[defect] Modify the help message of the Logged-In password field.		
23	B	[defect] add error handle to fix i2c read-write cmd fail cause IPMI main restart		
24	F	[feature] Add new API for GbtUtility to upload unprocessed SCP firmware file.		
13.04.08(2022/10/12)				P3
1	B	[defect] Init gpio I3C dimm VRHOT.		
2	B	[defect] add new chip model GD25B512ME & MX25U51245G to support list.		
3	B	[defect] Fix upload SSH Key fail issue.		
4	B	[defect] Fix CPU_TEMP's upper critical can't log event for INTEL platform.		
5	B	[defect] modify modelpatch-maker to act in concert with different python version		
6	B	[redfish][defect] Init and Update PSU status		
7	B	[defect] add A4500 device ID to pci_devices		
8	B	[defect] Add back KVM unlimited timeout features due to customer needs.		
9	F	[feature] 1) Add support of Delta/Gospower PSU update 2) Add support of PSU HPM update		
10	B	[defect] for Any platform BIOS don't need program to offset 0x400000		
11	B	[defect] remove Ampere platform bIOS need program to offset 0x400000		
12	B	[defect] delete the printf log		
13	B	[defect] add CPLD error_hardler message		
14	B	[defect] vme verify fail when webui show target device id not match with firmware		
15	B	[defect]Fix set gpu_temp thresholds fail when update FW preserve.		

16	B	[defect] Fixed an issue where the share type unexpectedly changed to nfs after saving the rmedia share type setting to HTTP.		
17	B	[defect] Allow file download using direct URL temporarily.		
18	F	[feature] Do recovery when firmware image-1 corrupted for Dual/RoT platform. [feature] BMC force recovery command support dual platform.		
19	B	[defect] just detect base class 03h for support all VGA device		
20	B	[defect] Add PCIe card in pcie skip list and combine PCIe card with the same VID & DID into one		
21	B	[defect] Add PCIE Card in erp pcie list		
22	B	[defect] remove any chances of command injection by redfish URI		
23	B	[defect] fix redfish can not login after change password issue.		
13.04.07(2022/09/15)				P3
1	B	[defect] after updated the SCP hpm check will show current version		
2	B	[defect] Add Altra RAS function support on BMC SEL		
3	B	[redfish][defect] Fix: 'verify progress -1' issue when update hpm_scp by redfish		
4	B	[defect] Remove TCP Flood (SYN Flood Protection) option in firewall settings.		
5	B	[defect] set max driving for RGMII 3/4. according to the experiment in Aspeed lab set max driving strength to get better AC timing.		
6	B	[defect] modify FRU for LTechkorea project		
7	B	[defect] Fixed the order of CPU_Status and CPU_MEMTRIP fields in devmaps causing WebUI CPU list icon issue		
8	B	[defect] Modify RTL8365 kernel driver and it will detect cmc status.		
9	B	modify parser fail message		
10	B	[defect] update the sensor sdr for H263 Intel CPU VR		
11	B	[redfish][defect] Fix: 'verify progress -1' issue when update hpm_bios by redfish		
12	B	[defect] fix nvme no reading problem.		
13	B	[defect] Add GENOVA GSC platform.		
14	B	[defect] add ipmi oem command return value for SVN 1822		
15	B	[defect] add CEC sensor for AMD platform.		
16	B	[defect]Modify read apml dimm fail retry read again.		
13.04.06(2022/08/30)				P3
1	B	[defect] add node power case define		
2	B	[defect]add node power to BMC sensor list		
3	B	[defect] Fix bios hang during bmc reboot test.		

4	B	[defect] Filter dashboard sensor by sensor_number and lun_number and owner_id.		
5	B	[defect] Fix DCMI set asset tag will have Product Extra incorrect data when asset tag more then 16 bytes.		
6	B	[redfish][defect] Fix: SEL entries / BIOS entries not displayed in Redfish LogServices		
7	B	[defect] Modify the chinese translation of the chassis.		
8	F	[feature] Add Ampere BIOS TPM function oem command.		
13.04.05(2022/08/24)				P3
1	B	[defect] Fix DCMI set assert not sync fo FRU.		
2	F	[feature] Support NIC card by PLDM and MCTP over PCIe		
3	B	[defect] 1.webui PCIE inventory page show SMBIOS SlotHandle ,BusNumber DeviceNum data 2.add PCI type group node 3.GPU inventory add GPU data list from PCI inventory 4.show GPU inventory page 5.sort the GPU card data from small to large		
4	F	[feature] Allow Non-Secure communication (http redirect to https.)		
5	B	[defect] Do not deregister IPMIMain from process manager, to avoid sometimes IPMIMain cannot be restarted.		
6	B	[defect] Workaround for miss enable CONFIG_SPX_FEATURE_SPI_REDIS_DUMP		
7	B	[defect] Add condition to judge update successful or not for bios and cpld.		
8	B	[defect] add power off Asserted/Deasserted sel msg to email format		
9	B	[defect] Fix CMC will get incorrect CPU temp		
10	B	[defect] Set default duty to 75%.		
11	B	[defect] Fix CMC will get incorrect CPU temp		
12	B	[defect] Fix error handler UI message bug		
13.04.04(2022/08/09)				P3
1	F	[feature] Add tca9539 sensor driver, init tca9539 for Ampere power on signal problem.		
2	B	[defect] Add miss CPLD JTAG error handle condition init tca9539 for Ampere power on signal problem.		
3	B	[defect] modify read scm cpld version sensor for old and new scm hw design.		
4	B	[defect] rename HTML id atrribute : replace start with hpmStart		
5	B	[defect] support BIOS image size (16MB/32MB/64MB) for BIOS HPM update		

6	B	[feature] Hidden page : merge PSU update from v12 to v13 and modify for v13		
7	B	[defect] add function to check PrjBoardName for TO23-H60		
8	B	[defect]Fix reset firewall setting fail.		
9	B	[defect] Fix BMC is not restart when BMC HPM upgrade.		
10	B	[defect] Fix IPMIMain crash issue when trigger GPIOH4 interrupt after IPMIMain restart.		
11	F	[feature] Add mechanism to register IPMIMain to process manager after BMC warm reset.		
12	B	[defect] fix dual recovery WDT may won't trigger problem.		
13.04.03(2022/07/28)				P3
1	B	[defect] Stop run dhcp6c-script when update mb cpld to avoid update failed.		
2	B	[defect] According to AMI EIP 690658 solution, fixed Multicast DNS doesn't work issue.		
3	B	[defect] Change to Platform Lake-D and enable ME support		
4	B	[defect] Fix MDS will show "DDF file for device - FRU05, not found" error message		
5	F	[feature] Add BIOS update keepalive feature.		
6	B	[defect] Fix /conf/resolv.conf will duplicate content when DNS renew frequently.		
7	B	[defect] Modify BIOS Image Size : 32MB for BIOS HPM update		
8	F	[feature] Add read apml_dimm temp driver.		
9	B	[defect] Add Basbrd_Mgmt_Ctrl, NodeManager_Ctrl to PMC file.		
10	F	[feature] Add suppurt of sideband cpld.		
11	F	[feature] Add support of solssh.		
13.04.02(2022/07/18)				P3
1	B	[defect] Remove present status at MEMTRIP sensor.		
2	B	[defect] Change the SCM/nonSCM determine pin from SMBus to GPIOZ1		
3	B	[redfish][defect] Fix: redfish validator fail 'Storage/2 resource missing when raid card installed'		
4	B	[defect] Adjust higher MDI voltage by Nic_Strength and different phy ID		
5	B	[defect]fix calloc no free in return fail.		
6	B	[redfish] Recover url /redfish/v1/AccountService/Configurations		
7	F	[feature] Add support : download and update BMC image from HTTP server		

8	B	[defect] Fix Power Control page sometimes stuck at loading- remove bug of redundant letter in a code line		
9	B	[defect] fix ampere system always write CPU UNC/UC when power on		
10	B	[defect]Fix gpu a4000 uc/unc not current setting.		
13.04.01(2022/07/07)				P3
1	B	[defect] Fix ACD in Whitley environment can't generate BAFI json log problem		
2	F	[feature] let BIOS com console have no output(screen) function when sol activate.		
3	B	[defect] Fix DNS setting for GbtUtility command		
4	B	[defect] Fix CPU LEAK will log incorrect status when DC cycle.		
5	B	[defect] Force preserve configuration for redfish.		
6	B	[defect] fix HPM_BMC fail problem.		
7	B	[defect]modify pci_devices json from Bruce to update gpu Uc/Unc.		
8	B	[defect] fix BMC can't reboot at end of BMC FW update by redfish		
9	B	[redfish] Recover unused constant		
10	B	[redfish] Support key size (2048 4096) for redfish certificate POST PEMchain		
11	B	[redfish] Recover openssl asn1parse validate for certificate		
12	B	[redfish] Enable redfish post certificate PEMchain for 4096 bits RSA public key		
13	B	[defect] Enable BMC MMIO decode on VGA device in uboot to avoid gigaflash update BMC FW fail.		
14	F	[feature] Add nvidia AX30 card into PCI device list		
15	B	[defect]fix i3c dev creat fail to reduce i3c clk.		
16	B	[defect] Hide MB2 version info when there has no MB2 CPLD version detected.		
17	B	[defect]revert i3c kernel driver to 1303 i3c.		
18	B	[defect] Fixed http request fail when using GbtUtility command.		
19	F	[feature] Support MB/BPB/SCM CPLD HPM update (WebUI).		
20	B	[defect] Hide ASD page from WebUI.		
21	B	[defect] Remove host_debug link from sidebar and Quick Links.		
22	B	[defect] Fix ACD BAFI decoded log is not generated.		
23	B	[merge] merge ami kernel config/dts modification to SCM.		
24	B	[defect] Fix ASD driver could not create device node		
25	B	[defect] Modify to support PSU4 FRU.		
26	B	[defect] upgrade schema version for validator error		

27	B	Fixed BIOS(EFI) hang on problem along with some platform BMC and BIOS reboot at same time BMC stuck at starting kernel		
28	B	[defect] Fix DDR5 DIMM SPD corruption when DIMM temp sensor scan.		
29	B	[defect] Fix I3C OEM command is return incorrect value when not use write data.		
30	B	[defect] fix CMC can't get BMC IP, because need to eth0 / eth1 interface.		
31	F	[feature] Add web support of dual BIOS HPM update		
13.03.09(2022/06/23)				P3
1	B	[redfish][defect] Fix: CPU doesn't display SerialNumber item		
2	B	[defect] Fix default FRU05.bin is NULL.		
3	B	[defect] fix sol setting not set back default after SOL deactivate.		
4	F	[feature] Add web support of dual BIOS HPM update		
5	B	[defect] Web HPM update : variables initialization		
6	F	[feature] Add web support of dual BMC HPM update		
7	B	[defect] add ampere power limit can be set and don't need CORE_PWR,SOC_PWR		
8	B	[defect] Modify the chinese translation of the chassis.		
9	B	[defect] Support MB/BPB/SCM CPLD HPM update (WebUI).		
10	B	[defect] Adjust SEL log message length to 512, and fix role privileges array size not fit issue.		
11	B	[defect] add power off Deassertion sel log.		
12	B	[defect] fix webui and Redfish can support DIMM Type DDR5		
13.03.08(2022/06/14)				P3
1	B	[defect] FSC start at 95 sec.		
2	B	[defect] Change GPU TEMP sensor name follow to meet SPEC.		
3	B	[defect] Set Severity as Critical when Entrycode is Deassert , merge code from AMI patch :https://git.ami.com/core/lts/spx-13/ext-packs/technologypack/redfish/rtp-core/-/merge_requests/1677/commits?commit_id=daec66fd2aff578da754bfaeacbbb9989b8d9408		
4	B	[feature] Add support of creating HPM image for 1st BMC		
5	F	[feature] Support dual BIOS HPM update		
6	F	[defect] Fix power capping setup problem.		
7	B	[defect] Disable ACD page if current platform is not intel supported.		
8	B	[defect] Merge AMI issue patch: Fix to prevent IPMI Authenticatin bypass when RMCP is enable		

9	B	[defect] 1.add SYS_POWER sensor for fix power consumption show 0 watt 2.add PSU cold redundant sensor		
10	B	Merge CommonRTP1.8_rc r6689,6871. [feature] Sync DIMM ECC/CPU throttled/CPU thermal trip sel log to redfish hardware inventory status. [defetc] Add sensor name to sel log message and update redfish log severity when trigger memory ecc error/CPU throttled.		
11	B	[defect] update PEX89 series get temp method by spec		
12	B	[defect] fix CPU_PWR not display on webui		
13	B	[defect] fix can not show gpu info with A100		
14	B	[defect] According HW design, it must switch PCA9548 to channel 2 firstly and determine SCM or NonSCM type.		
15	B	[defect] fix sol setting not set back default after SOL deactivate.		
13.03.07(2022/05/26)				P3
1	B	[defect]fix i3c-dev build error.		
2	B	[defect] Fix CPUx_LEAK_Status sensor will log assert event when DC off.		
3	B	[defect] fix aspeed i2c driver over 100k adjust i2c frequency and holdtime.		
4	B	[defect] Remove duplicate filename validation and fixed failure of deleting SOL Recorded video through WebUI.		
5	F	[feature] Support CPLD HPM update : 1) MB CPLD 2) BPB CPLD 3) SCM CPLD		
6	F	[feature] Add support of creating HPM image for BMC		
7	F	[feature] Update conf file for BMC		
8	B	[defect] Hide system-log menu item temporarily from WebUI but still can access system-log page via URL.		
9	B	[defect] fix Ampere BIOS update 4MB offset erase and calculate checksum problem.		
10	B	[defect] modify check BMC run mode print log content to avoid some misunderstand.		
11	B	[defect] modify check BMC run mode print log content to avoid some misunderstand.		
12	B	[defect] Show NIC IP info on page NIC inventory.		
13	B	[defect] Fixed SMART info not showing properly.		
14	B	[defect] fix SASIT page always display		
15	B	[defect] use AMI set Enabled function		
13.03.05(2022/05/05)				P3

1	B	[defect] Remove numberOnly class to fix couldn't type in english issue.		
2	B	[defect]Add oem command for get LAN support		
3	B	[defect] fix HBA card loading fail and merge latest brcm-riad-ast2600 package from AMI LTS_v13		
4	B	[defect] fix can't update BIOS FW in intel platform when old BIOS have no ME code(empty or AMD FW) problem.		
5	B	[defect] 1. Send 0xAB in CPLD register 0x38 to clear thermal trip 2. Change detect CPU status from CPLD for MS63-HD1-00 platform		
6	F	[feature] Add CreateHPMImage		
7	B	[defect] update PCIE list define		
8	B	Add function to List devmap error and fanprofile error systems		
9	B	[defect] Don't support SecureBootDatabases if SecureBoot:ResourceExists redis key didn't exist		
10	B	[defect] modify MS73-HB0 use BPBID for BPB CPLD update feature.		
11	B	[defect] Send BIOS post code to CPLD change to 0xB0.		
12	F	[feature] Add 4 common BPBID define to handle most project's BPBID.		
13	B	[defect] avoid securebootdatabase 404 error		
14	B	[defect] Fix BMC will auto power on system when AC cycle		
13.03.04(2022/04/21)				P3
1	B	[defect] Modify loggedin_password regex to fix 'app' undefined issue base on commit 6930e3de.		
2	B	[defect] Modify when only GenID is 0x20 or 0x22 to get BMC sensor name in the WEBUI seltext file.		
3	B	[defect]Fix R283-Z91-AAD1 devmap and hddsel count.		
4	B	[defect] Let update CPLD SCM support Refresh function.		
5	B	[defect] fix the pci and hdd inventory Add-In-Card list not in numeric order		
6	B	[defect] Fix WebUI Logged-In Password validation not working properly due to fail to import 'app'.		
7	F	[feature] Add RTL8211F-VD-CG to phy support list		
8	B	[defect]add log for ipmi bios ready fail to init i3c.		
9	B	[defect] 1. Change MS73-HD0's platform to EAGLESTREAM. 2. Add Fishhawk_Falls platform to GPIOB6 NMI button function.		
10	B	[defect] Modify i3c ipmi cmd initial .		
11	B	[defect] G493-ZB0 and G493-ZB1 GPU Server Default AC Loss Policy is power off.		
12	B	[defect] Send BIOS post code to CPLD change to 0x80.		
13	B	[Defect] Merge from test fw 12.60.95: Fix PSU alert mask issue		

14	B	[defect] update the platform to Eagle_Stream		
15	F	[feature] Add A100X into pci devices list		
16	B	[defect] cec1712 revoke cmd need delay time, add lost EC revision revoke part.		
17	B	[defect] fixed some key mappings are wrong in ikvm French keyboard.		
18	B	[defect] write the value to e4 for GPU A100X and A30X		
19	B	[defect] Add the function of dumping BMP firmware in /maintenance/firmware/dump.		
13.03.03(2022/04/06)				P3
1	B	[defect] uboot enable MMIO function for host access aspeed reg.		
2	B	[defect] Fix saving error due to wrong data type when sending PUT request.		
3	B	[defect] Update new PCI list table to support DapuStor's HDD		
4	F	[feature] add H5ViewerFrenchKeyboard.		
5	B	[defect] Fix ASD not work on SCM.		
6	B	[defect] Fix the issue that when add firewall port rule. If the port range end not filled it will block to add the rule and show error message		
7	B	[defect] Add EAGLESTREAM_GSC and GENOVA_GSC platform to GPIOB6 NMI function.		
8	B	[redfish][defect] Fix: Can not simpleupdate with HTTPS server		
9	B	[defect] Modify GPIOP5 trigger to GPIOB6 NMI command		
10	B	[redfish][defect] Fix: Can not https simpleupdate HPM fw(BMC/BIOS/SCP)		
11	B	[defect] fix commit c944a0f8 due to syntax issue.		
12	B	[redfish] Support multipartpush dual bios upgrade		
13	B	[defect] Prevent polling to send massive amounts of request in a short amount of time.		
14	B	[defect] Fix GPIO will return -1 (crash) and not to init next GPIO when init fail.		
15	B	[defect] Fix saving issue at General RADIUS Settings page when sending PUT request.		
16	B	[defect]Add ipmi oem cmd bios ready to init i3c device.		
17	B	[redfish][defect] Let updateservice can display FlashPercentage during hpm fw update		
18	B	[defect] Only erase login-related cookie after logging out and fix some language of drop-down list display issue.		
19	B	[defect] modify the AMPERE_BIOS_OFFSET 0x400000 to 0x000000		
20	B	[defect] Fix MZ93 CPU1_temp no detect.		

13.03.02(2022/03/17)				P3
1	B	[redfish] 1.SimpleUpdate support scm_cpld update 2. MultipartPush support scm_cpld update 3.Add function to let redfish can judge is GSC platform or not		
2	B	[redfish] MultipartPush support: BIOS, not support HPM_SCP MB_CPLD BPB_CPLD yet		
3	B	[redfish] MultipartPush support: BMC HPM_BMC HPM_BIOS, not support bios yet due to bios signed-key problem		
4	B	[defect] Change init RAID/HBA timing.		
5	B	[defect] Fix previous commit 88921940 not updating due to missing command.		
6	B	[feature] Let update CPLD MB/SCM support Refresh function.		
7	F	[defect] Fix BMC all sensor is NA in have SCM DTB platform - Disable UART4		
8	B	[defect] use SGPIO update BPB CPLD, BPB_PROGRAMMING_N should low.		
9	B	[defect] Init I3c device.		
10	B	[defect] merge i2cget.c/i2cset.c form i2c-tools-4.3		
11	B	[defect] fix drop-down list language display incorrectly when browser language set to english.		
12	B	Merge CommonRTP r6903,r6904. [defect] Fix init update service fw info fail and set correct firmware inventory info. [defect] Fix active power limit error handle crash issue.		
13	B	[defect] fix ACD not work on EGS DCSCM		
13.03.01(2022/03/10)				P3
1	B	[defect] Fix redfish can't preserve config issue.		
2	B	[defect] update the NVME sensor		
3	B	[redfish][defect] Fix: error log 'redis error: WRONGTYPE Operation against a key holding the wrong kind of value' during system power on		
4	B	[defect] update the NVME sensor show max temp		
5	B	[redfish] Replace hans code with AMI pure code so redfish will use ami method when PATCH NTP config		
6	B	[defect] add GPU and update OCP		
7	B	[defect] pca9545 change to TCA9548		
8	B	[defect] Modify the GPIO PIN of CPU_STATUS to the setting of AST2600.		
9	B	[defect]add Fishhawk_Falls and Alder_Lake_S platform		

10	B	[defect] Fix BMC_READY_N pin trigger low pulse when uboot init and gpio init.		
11	B	[defect] commit fanprofile default.json by zac.zhan@gigabyte.com		
12	B	[defect] fix hpm_bios update		
13	B	[defect] Fix preserve smbios.dmp fail when update BMC FW.		
14	B	[defect] fix webui update fail issue because of new AMI PUT/POST method.		
15	B	[defect] update the DIMM address		
16	B	[defect]Modify Ti Vr_vpp sensor critical.		
17	B	[merge] merge ami code base. Entering 'packages/ast2600' : e67eda08112e574730cb30c43afdd5eb457ca0c4 (HEAD -> LTS-v13 tag: LTS-v13_13.2_Funtion_Migration origin/LTS-v13)		
18	B	[defect] Ampere update BIOS1 will boot BIOS2 problem.		
19	F	[feature] Support ioctl I2C_RESET for SSIF bus.		
20	B	[defect] Fix: disable WDT2 failed (open /dev/watchdog failed) randomly when Redfish SimpleUpdate		
21	B	[defect] hide the URI for SecureBootDatabases and remove didn't exist schema		
22	B	[defect] No showing ACD debug log on BMC console.		
23	B	[defect] 1.remove workaround method of disabling wdt2 when redfish simpleupdate. 2.let wdt2 can be disabled when redfish simpleupdate by creating redfish flag		
24	B	add missed code of declaring redfish flag for disabling wdt2		
25	B	[defect] add BPB_FAN and NVME sensor		
26	B	[defetc] Reset count or it will cause memory overflow		
27	B	[defect] creating redfish flag so wdt2 can be disabled when simpleupdate HPM_BMC		
28	B	Rename count to layer_count and change to static parameter.		
29	B	[defect] add BPB_FAN and NVME for E163-S30 E263-S30 R263-S30 R263-S33		
30	B	[Merge] AMI redfish code. rtp-core:f7f42fa1 common:c75be634		
31	B	[redfish] revert update-service code to ami pure code and merge gbt supported function with seperated function call so redfish update-service will be easier to upgrade code in the future		
32	B	[defect] Fix the issue of Raid Manager 'Storage Summary' help information is empty.		

33	B	[defect] Fix to increase LDAP BindDN and SearchBase property size in the Structure		
34	B	[redfish] Not ready to support MultipartPush yet so comment the MultipartPush case		
35	B	[defect] Workaround for some of oem redis key is not currect format. It leads to redfish crash when sync agent is not ready.		
36	B	[defetc] Modify raid post key for correspond to AMI format.		
37	B	[defect] copy FanProfile from v13.2		
38	B	[defect] copy FanProfile from v13.2		
39	B	[defect] show GSC CPLD version(MB1,MB2,SCM).		
40	B	[defect] fix webUI CPLD version always show GSC form problem.		
41	B	[defect] modify Intel Ampere GSC module devmap for getting GSC CPLD version.		
42	B	fix motherboard chassis id.		
43	B	[defect] Fix GetNodeID IPMI command no response Merge from http://10.1.27.226/svn/AMI/trunk/V12.2_20191206 r6985		
44	B	[defect] Check platform use GPIOB6 to NMI function for EAGLESTREAM and GENOVA platform		
45	B	[defect] fix restore comfigure webui login fail.		
46	B	[defect] modify scan time of sdr name ME_STATUS.		
47	B	[defect]fix hpm update.		
13.02.24(2022/02/10)				P3
1	B	[defect] fix can't create directory error		
2	B	[defect] Fix kcs fail in Linux OS when DC cycle.		
3	B	[redfish][defect] Fix: SimpleUpdate fail (WDT2 timeout) issue		
4	B	[defect] merge ami i2c driver.		
13.02.23(2022/01/27)				P3
1	B	[defect] Fix progress loading bar has no action issue.		
2	B	[defect] Add GENOVA GSC platform.		
3	B	[defect] 1.add Eagle stream GSC platform define 2.modify SKU platform define size		
4	B	[defect] change ampere project S0_SOC_TEMP critical value to 105, 108		
5	B	[defect] Extension of delay time for power cycle interval to avoid power on function isn't work		
6	B	[defect] Use CPU status to check if CPU Socket is populated or not for cpu inventory.		
7	B	[defect] modify GetDCMICapabilityInfo response.		

8	B	[defect] Let TFTP update mode to use the update dialog.		
9	B	[defect] Add GENOVA platform.		
10	B	[defect] 1. Update devmap for I282-ID0 2. Check power module's MFR_ID to distinguish Delta or Belfuse		
13.02.22(2022/01/20)				P3
1	B	[defect] Fix webUI preserve config fail when update BMC FW.		
2	B	[defect] Disable Data Cache when stop autoboot to avoid otp cmd abnoraml.		
3	B	[redfish][defect] Fix validator fail of Systems/Self/Bios		
4	B	[defect] Add Not Installed case for avoid webui CPU inventory error.		
5	B	[defect]modify Rtl8365 judge Register.		
13.02.21(2022/01/14)				P3
1	B	[defect] Fix OTP read/write cmd abnormal.		
2	B	[redfish][defect] Fix validator fail of Systems/Self/SimpleStorage and related urls		
3	B	[defect] fix simplestorage value is different with inventory and redfish		
4	B	[redfish][defect] Fix: validator fail of Chassis/Self/Sensor and Chassis/Self/Power		
5	B	[defect] Update kcsio.efi utility version 1.2		
6	B	[defect] Support SCM projects display SCM MB BPB CPLD version		
7	B	[defect] remove PLACEHOLDER PSU CPU1 for MX33-AR0-00 devmap		
13.02.20(2022/01/10)				P3
1	B	[defect] Modify rtl8365 kernel driver.		
2	B	[redfish][defect] Fix: redfish certificate service (CertificateReplace / GenerateCSR)		
3	F	[redfish] Enable GET /redfish/v1/Oem/Ami/InventoryData at normal interface		
4	B	[defect] Missing files in commit 3a879ab6		
5	B	[defect] Fix OS can't boot problem because REQ_SHD is low		
6	B	[defect] de-hide PHYSICAL_SECUR by hide tag tool		
7	F	[feature] Add Rtl8365 Switch Initial.		
8	F	[feature]update socflash utility to 1.22.07 for linux arm		
9	B	[defect] 1.Add the register setting of work-around/local interface IO/port selection. 2.Modify to pass access to the outermost parent.		
10	B	[defect] add json body request for clearlog		
13.02.19(2021/12/30)				P3

1	B	[defect] 1.Modify to use xml scan to collect i3c device in devmap. 2.Combine the collected i3c devices into an insert module command. 3.Add dcr & bcr from insert.		
2	B	[defect] Fix the response data length.		
3	B	[defect] Modify the path to open i3c device.		
4	B	[defect] Let webui BIOS button can be displayed in 2600 platform.		
5	B	[redfish] adjust the behavior of GET Bios/SD: only show modified items, don't show all items.		
6	B	[defect] Fix hpm update BIOS cannot select the image number issue.		
7	B	[defect] Fix the issue that redirecting the "Existing Firewall Settings" page to the "Add Firewall Settings" page does not work.		
8	B	[merge]merge v12 r6429 [defect]Fixed update mac not executed immediately with gigaflash		
9	B	[defect] Fix new PCIE device options has no UC and UNC issue.		
10	B	[merge] merge from v12 r6568:[defect] Add check raid info function for avoid webui get raid count but have no data		
11	F	[feature] 1.Add VR Sensor driver of RAA229621. 2.Modify ADC sdr of AST2600.		
12	B	[defect] CUPS support from devmap to open or close.		
13	F	Merge from v12RC r6505 [feature] Support MI210 GPU card and add MI210 device ID.		
13.02.18(2021/12/23)				P3
1	B	[defect] Fix webui CPU inventory ampere platform error. The arrCache value may null.		
2	B	[defect] Change BIOS_2ND_SEL_N from GPIOW4 to GPIOR6		
3	B	[defect] fix mantis 51576 BMC reset cause OS reboot		
4	B	[defect] update otp driver from v13.3.		
13.02.17(2021/12/17)				P3
1	B	[defect] update i2c driver from v13.3.		
2	B	[defect] Fix CPU stress will show NA and low fan speed		
3	F	[feature] Add CEC1712 i2c revoke revision restful API and add some error handle in parse cmd data action.		
4	B	[defect] Change to use AMI libpeci4.		
5	B	[defect] Fix firewall web ui language and port timeout issue.		
6	B	[defect]fix if BIOS_flashend address equal to BIOS_flashstart address will still flash one block data error		

7	B	[defect] fix not show scp version it use same number with CPLD_STATUS		
8	B	Lost commit for hardware usage function		
9	F	[Feature] Add i3c sensor of PMIC to enable i3c device.		
10	B	[defect] Modify hardware usage for INTEL platform		
11	B	[defect] fixed language display error in remote image page		
12	B	[defect] fix Uc/Unc Exchange value		
13	B	[defect] MDI voltage doesn't need to change Power Policy setting		
14	B	[defect] fix mantis 51474 system off after upgrade BMC will be power on automatically		
15	B	[defect] Fixed jviewer can not download		
16	B	[defect] fixed webui service configuration abnormal		
17	B	[defect] WebUI Show FRU device ID in a correct order.		
18	B	[defect]Add MS03 I3C dimm device.		
13.02.16(2021/12/09)				P3
1	B	[defect] This fan profile does not belong to V13.		
2	F	[feature] 1.add MS93-FS0-K2 devmap,SKU 2.set Power Policy is power on		
3	B	[defect] Fix reset button not work.		
4	B	[defect]add MS93 devmap I3c dimm device.		
5	B	[redfish][defect] fix: POST CertificateService.GenerateCSR failure		
6	B	[defect] Change udhcpc function to background to improve the boot time.		
7	B	[defect] Fixed mac0 pinctrl settings, Enable mac2 feature and Fixed phy reset timed out.		
8	F	[feature] Add judge Vr brand.		
9	B	[defect] fix bmc reboot cause OS shutdown, mantis 51202		
10	B	[defect] Remove check_ec_exist in order to decrease loading times from web page #remote_control and #power-control.		
11	B	[defect] change SKUInfoAmpSupport function to SKUInfoIsAmperePlatform function		
12	B	[defect] Fix power button not work for GPIOF2 interrupt registration fail will cause GPIOP0 not be registrated.		
13	B	[defect] display GPU current sensor for G492 system.		
14	B	[defect] Fix raid can't create/delete by redfish		
15	F	[feature] Add CEC1712 i2c revoke key restful API(correct build error).		
16	B	[defect]Fix CMC can't read DIMM temp problem, fix CPU PWR to 2 bytes		
13.02.15(2021/12/02)				P3
1	B	[defect] Set GPIOE0 to default output high.		

2	B	[defect] HW change design from GPIOB1 to GPIOF2 for wakeup on LAN		
3	B	[defect] fix scp(BOOTFW) version always 0		
4	B	[defect] change detect CPU status GPIO pin		
5	F	[feature] add I3C trandfer oem cmd.		
6	B	[defect] fix initial I3cdevice rmmod and add i3c oem cmd check reqlen.		
7	B	[defect] add I3c device initial and check bus/addr in oem cmd.		
8	B	[defect] modify restful API & ipmi get channel access for host interface connect		
9	B	[defect] Decrease web page #remote_control and #power-control loading times.		
10	B	[defect] Always show minimum power limit field when enable/disable the function on AMD platform.		
11	B	[defect] Remove execution i3c initial.		
12	B	[defect] Enable pinctl of i3c bus 3 & 4.		
13.02.14(2021/11/25)				P3
1	B	Revert "[defect] Modify PHT state time."		
2	B	[defect] Add fpga and psu update types.		
3	B	[defect] Fix the error message when lighttpd startup.		
4	F	[feature] Enable GBT SNMP function.		
5	B	[defect] fix WebUI update		
6	B	Add the tag that enables to adjust the voltage of DDR5.		
7	B	[defect] Modify PHT state time.		
8	B	[defect] check GSC platform only one time modify vme parameters for CPLD upgrade.		
9	B	[defect]For MP92 need set GPIOL4 high as default		
10	B	[defect] For ampere project should set PWBTN as outpin		
11	B	Revert "[defect] fix MP62-HD0 power button not work need set it as output pin"		
12	B	[defect] Fix mantis #49623 clear previous canvas trail after Zoom operation.		
13	B	[defect] Disable BPSKU feature since EEPROM on BP will be used for dynamic devmap in the future. (merge from V12.2_20191206 r6134)		
14	F	[feature] add IMX3112 driver.		
13.02.13(2021/11/18)				P3
1	B	[defect] change detect GSC module platform method for CPLD upgrade		
2	B	[defect] Fix cannot use bkconf recovery conf when conf mount fail.		
3	F	[feature]add oem cmd i3c ddr5 adjust vol.		

4	B	[redfish][defect] fix: Init certificate Failure		
5	B	[defect] fix MP62-HD0 power button not work need set it as output pin		
6	B	[defect] Avoid bus and device corresponding errors		
7	F	[defect] Only execute initial at 90 seconds.		
8	B	[defect] remove Runtime Feature Licensing Support by MDS.		
13.02.12(2021/11/11)				P3
1	B	[defect] uboot fine tune.		
2	B	[defect] Get current bios size before dump the bios image.		
3	B	[defect] Fix mantis #49623, ikvm screen mess problem.		
4	B	[defect] Fix ssif stuck issue		
5	B	[defect] Add the exception of filtering the address value greater than 0xff and the tag of SENSOR/ACCESS_PT/REDIS.		
6	B	[defect] Wait for BIOS to switch the SW jumper to BMC and then perform the i3c initial.		
7	F	[feature] 1. Support internal i3c device access via ioctl. 2. Add parser that accesses I3C tag to devmap, for i3c insert kernel module. 3. i3c kernel driver dynamically sets the address initially.		
8	B	[defect] update the sku2 from V12 for fanprofile problem		
9	B	[defect] this command bmc conf copy to backup conf		
10	B	[defect] modify the issue on registry, BiosAttributeRegistry, BiosAttributeRegistry.json and pcie-slots redfish page		
11	B	[defect] set jtag interface default number to compatible with old project.		
12	B	[defect] fix JTAG 1 interface can't upgrade CPLD		
13.02.11(2021/11/04)				P3
1	F	[feature] add new platform name for QuickSilver_GSC		
2	F	[feature] support socket BMC upgrade CPLD		
3	B	[defect]Hardware design change change clean CMOS		
4	B	[defect] don't run init when redfish-nw-up		
13.02.10(2021/10/29)				P3
1	B	[feature] Set default AC lost is last status.		
13.02.09(2021/10/28)				P3
1	B	[defect] Modify NCSI default settings in kernel driver and remove ncsi_init.sh/ncsicfg.sh link to /etc/rcS.d		
2	B	[defect] Correct the HDD Inventory sort, sort by strDeviceLocator (storage type name or controller name) before the port number.		
3	B	[defect] Merge from v12(rc) r5434: Solve the row deployment on NIC inventory page with two same chips on a LAN card		

4	F	[feature]add UN/UNC parameter to pci_device.json		
5	B	[defect] Fix redfish validator fail		
6	F	[feature]add Set PCIE GPU UC/UNC.		
7	B	[defect] Add redfish sensor type code 195 for adding sel to redfish crash issue		
8	B	[defect] Fix inventory_prefix parameter error.		
9	B	[defect] Show HDD controller name and port instead of storage type name if storage type is 0xffff.		
13.02.08(2021/10/21)				P3
1	F	[feature] for smbios type 129 add new item for HDD controller name		
2	B	[defect] fix hpm upgrade fail if with PMBUS_INFO and OS power on		
3	B	[defect] fix webui bios hpm update not show bios version		
4	F	[feature] Add hide tag in all model.		
5	B	[defect] add delay to avoid duplicate record power off sel log.		
13.02.07(2021/10/14)				P3
1	B	[defect] fixed autoboot to boot delay 0.		
2	B	[defect] Fix error message when load cpld_hw module		
13.02.06(2021/10/07)				P3
1	B	[defect] Fix the sel log page is empty because of parsing the extended sel log fail.		
2	B	[defect] fix bios hpm upgrade Unable to find HOST SPI / PNOR MTD par.		
3	B	[defect]Correct_ncsi_writeflowcontrol		
4	B	[defect] Fixed update full SKU area option can not work		
5	B	[defect]Fixed SOL remote server setting fail, WebUI will log out automatically		
6	B	[defect]Fixed set invalid ip into "Remote Log Server" WebUI will log out automatically		
7	F	[feature] Add sensor debug mode. (merge from V12.2_20191206 r5504, r5529) The sensors which has <hide="1"> tag will not show by default.		
8	B	[defect] Improve IPMI command response time. (merge from V12.2_20191206 r5059, r5385, r6046) 1. Add AMI patch for EIP #596308. 2. Fix RMCP Ping (-I lan) issue with AMI patch 0003 for EIP #596308. 3. Remove with no Telco package. 4. Obtaining the AES key and IV is performed only once. 5. Obtaining the scope index ID for channel no is performed only once. 6. Fix IPMI lanplus 16 bytes password issue.		

9	F	[feature] Support ipmitool -I lan opertion. (merge from V12.1_20190215 r621)		
10	F	[feature] Enable ASD function		
11	F	[feature] Add ASD/ACD packages		
13.02.05(2021/09/30)				P3
1	F	[feature] Adjust higher MDI voltage by Nic Strength value		
2	B	[defect] miss define the XPATH_NIC_STRENGTH		
3	F	[feature] add password policy function		
4	B	[defect] fix hpm check show version is 0		
5	B	[defect] fix power button graceful shutdown not work		
6	B	[defect] Correct ncsi boot up wait 10 sec.		
7	B	[defect] fix hpm upgrade bios fail		
8	B	[defect] Fix will log multi bmc backup success issue.		
9	B	[defect] Fix sometimes re-open kcs device failed issue		
10	B	[defect] Fix cannot control gpio issue. V13 not need to lock SCU register		
11	B	[defect] fix power cycle stress send the same power off sel log.		
12	B	[defect] Fixed mantis #50220, BMC-generated Gratuitous ARP interval error problem.		
13.02.04(2021/09/16)				P3
1	B	[defect] Disable Verify feature in uboot default env settings and modify 0x0 to 0x20000000 for startaddress.		
2	B	[defect] fix hpm check not show bios version, mantis 4781		
3	B	[defect] fix sel log GenID is 0x20 (BMC)		
13.02.03(2021/09/10)				P3
1	B	[defect] Modify code of commit 3c0fdffd - Only detect HW SPI mode once.		
2	B	[defect] AMI code for solve the problem of resolution switching.		
3	B	[defect] Fix log bmc backup fail issue for R182		
4	B	[defect] Disable MAC2 settings in u-boot.		
5	B	[defect] Only detect HW SPI mode once.		
6	B	[defect] Fixed can not set alert mask problem.		
7	B	[defect] do not print error when detecting AST2600.		
8	B	[defect]Fix graceful shutdown sometimes not work		
9	B	[defect] extend H233 and H273 model.		
10	B	[defect] Start to send ROT recovery status after boot complete flag exist		
11	B	[defect] Fix MP62-HD0 CPU2 power not high enough.		
12	B	[defect]remove debug log.		

13	B	[defect] Modify FAN number for PCB print.		
14	B	[defect]Dual need switch back to previous BIOS before ME enter normal mode to prevent ME part change.		
15	B	[defect]fix PCA9545 and version		
13.02.02(2021/09/02)				P3
1	B	[defect] Modify uboot/kernel spi bus width setting.		
2	B	[defect] Set GPIOR3 default output-high for ampere platform.		
3	F	[feature] Add auto detect HW SPI mode feature.		
4	B	[defect] Fix CPU TEMP detect fail		
5	B	[defect] Modify PCB version follow AST2600 GPIO18B4 ~ GPIO18B7		
6	B	[defect] fix power button not graceful shutdown		
7	B	[defect] fix clean CMOS send command to BIOS		
8	B	[defect] Enable Power button graceful shutdown for ampere project		
9	B	[defect] add nvparm for 2600		
10	F	[feature]disable uboot MMC function.		
11	B	[defect] remove short delay between clear psu fault and set alert mask.		
12	F	[feature] Add SSIF feature support 1. Add SSIF packages from V12 codebase. 2. Change Depends from i2c to sys_i2c for V13 codebase. 3. Enable I2C/SSIF features in PRJ file. 4. Change SSIF bus to i2c-13 (sync with V12). 5. Change bus name in ssif packages (i2c* -> i2c-*) for V13 codebase. 6. Change Kernel 5 I2C driver from i2c-aspeed to i2c-new-aspeed. 7. Add ENABLE_SSIF, SSIF_NACK_DISABLE ioctls in kernel i2c driver. 8. Enable write feature for SSIF in kernel i2c driver i2c-slave-read. 9. Replace ioctl(I2C_SLAVEWRITE) with file write when sending SSIF package. 10. Change IPMI SSIF priority from normal to high.		
13	B	[defect] Fix MP72 SSIF cannot work issue, use platform tag to check is Ampere or not instead of MB ID.		
13.02.01(2021/08/27)				P3
1	B	[defect] fix AST2600 not AST2500		
2	B	[defect] fix fan/nvme disable problem for R152-ZG0-00.		
3	B	[defect] Update pci device id table		
4	B	[defect] add short delay between clear psu fault and set alert mask.		
5	B	[defect]add R282-P92		
6	B	[defect] fix dp display abnormal under dos OS.		

7	B	[merge] merge from V12.2_20191206 r2619:[defect] Move FRU and FRU1 data to EEPROM 17K offset to avoid Mfg. Date/Time of FRU data lost.		
8	F	[feature] Add ROT force recovery command.(Support on EC v01.12 and later)		
9	B	[defect] Change VR sensor address for MH62-HD2 platform		
10	B	[defect] R182-NC0 remove M2 sensor.		
11	B	[defect] Change model name MH63-HD0 to MS63-HD0		
12	B	[defect] change model name 1.MU93-TU0 to MS33-AR0 2.MD73-HB0 to MS73-HB0 3.MU73-SU0 to MS03-CE0		
13	B	[defect] R182-3A4-FK 1.remove some fan 2.add NVMe temp sensor.		
14	B	[defect] Remove to print BIOS POST code when dc on		
15	B	[defect] Porting sensor for R152-ZG0-00.		
16	B	[defect] fix git ID 9713108b build error		
17	B	[defect] G492-ID0 modify RAID_INFO sensor.		
18	B	[defect] fixed hpm update fail problem for R282-Z97-00.		
19	B	[defect] Modify adc sdr for R152-ZG0-00.		
20	B	[defect] Add VR_PX_TEMP of H263-S60-00.		
13.01.35(2021/08/23)				P3
1	B	[defect] Remove to print BIOS POST code		
2	F	[feature]update gigaflash to version 1.7.6		
13.01.34(2021/08/19)				P3
1	B	[defect] fix mantis #49570, ipmitool channel info issue.		
2	F	[feature] 1. add MS43-G20 system devmap, sku 2.add BP CBPG084 define		
3	B	[defect] 1. H262-NO1, H262-PC2 use MH62-HD2 2. Remove onboard lan voltage for MH62-HD2 3. Modify MH62-HD2 sensor follow H262v		
4	B	[defect] H262-PC2 not have onboard lan, so remove it		
5	B	[defect] Change R182-34A-FK's power restore policy to "power off"		
6	B	[defect] remove duplicate sensor for MZ92-FS2.		
7	B	[defect] fixed some sensor fail problem for MZ92-FS2/R282-Z97.		
8	B	[defect] Fix the DirectMode part to solve the problem of resolution switching.		
9	B	[defect] fix BMC reboot CPU will be reboot problem		
10	B	[defect]Change Ampere project CORE_PWR and SOC_PWR to CPU_PWR		
11	B	[defect]update MP72 sensor		
12	B	[defect] add raid info for MZ92-FS2/R282-Z97.		

13	B	[defect] fixed power control problem for R282-Z97-00. [defect] add MB CPLD version.		
14	B	[defect] G492-ID0 add RAID_INFO sensor.		
15	F	[feature] R182-34A-FK add GPU sensor.		
13.01.33(2021/08/12)				P3
1	B	[defect] Fix cpu PLIMIT set wrong gpio, and set RTC_CLK, RTC_DATA as input pin		
2	B	[defect] fix gpio pin for select scp device		
3	B	[defect] Fix UEFI reset not work		
4	B	[defect]set BMC_INIT pin dir and high low for INTEL Eaglestream CPU.		
5	B	[defect] add sensor monitor delay when power on/off.		
6	B	[defect] Record BMC backup status to CEC1702 on ROT mode		
13.01.32(2021/08/05)				P3
1	B	[defect] modify CPU_FAN sensor for G492-H80.		
2	B	[defect] commit fanprofile R182.json by kate.kung		
3	F	[feature] Add detect chassis intrusion status for ast2600 A2/A3.		
4	B	[defect] add raid info for MZ72-HB2-00.		
5	F	[feature] add MW83-PR0-00 devmap and SKU.		
6	B	[defect] reduce the scan recovery time to 1.5 minutes.		
7	F	[feature] Add W771-Z00-I6 devmaps		
8	B	[defect] update TCA9548 the same to pca9545 can get raid card show raid management		
9	B	[defect] update the raid card and NVME		
10	B	[defect] modify MP62-HD0 sensor PX_VDDCR_SOC SDR.		
11	B	[defect] add SDR P_VDDCR_2600B for MP62		
12	B	[defect] Change get CPU temp from PECI for MH63-HD0 platform		
13.01.31(2021/07/29)				P3
1	B	[defect 49219] Fix Enable/Disable Bonding fail via webUI.		
2	B	[defect] fix mantis #47104 CPU thermal trip issue.		
3	F	[feature] Add SSIF feature support		
4	B	[defect] 1.merge r3749,r2049 from trunk, WebUI show msg when CEC1702 do BIOS recovery. 2. Fix get recovery status cmd fail when bios recovering.		
5	B	[defect] 1.Add ncsi feature support. 2.Disable link and ncsi page.		
6	B	[defect] Add power consumption display language for AMD Platform.		
13.01.30(2021/07/22)				P3
1	B	[defect] Let the speed show 0 when network cable is disconnected.		

2	B	[defect] set GPIO pin default value, for PSU event power off CPU0 and CPU1		
3	F	[feature] CPU throttling when PSU alert event		
4	B	[defect] for ampere CPU frequency control set GPIOI7 high to keep cpu normal speed		
5	B	[defect] For Ampere project BIOS select pin is GPIOW4		
6	B	[defect] merge EIP 613947 for Create raid logi device and initialization issue.		
7	B	[defect] set ADC clock before read ADC voltage.		
8	B	Merge power consumption funvtion for V12 : 1. Hide exception action field on AMD platform. 2. Add amd platform for webUI detect. 3. Merge ActivePowerLimit value from V12 dcmi config.		
9	B	[defect] Fix BIOS could not power on by PWR_BTN or IPMI		
13.01.29(2021/07/15)				P3
1	B	[defect] add ROT sensor for Intel platform.		
2	B	[defect] add ROT sensor for AMD platform.		
3	B	[defect] add PSU1_HOTSPOT & PSU2_HOTSPOT on MC62-G40-00		
4	B	[defect] modify MC62-G40-00 fan order		
5	B	[defect] add Fanprofile on MC62-G40		
6	B	[defect] ampere project graceful shutdown		
7	B	[defect] change update_cpld gpio access method		
8	B	[defect] Ampere change SOL control by GPIOR6		
9	B	[defect] For ampere wake on lan		
10	B	[defect] fixed some sensor disable problem for E162-220-00.		
11	F	[feature] Add SCP version to fwinfo page		
12	F	[feature] add MB21CE sku.h		
13	F	[feature] update the GPU number		
14	B	[defect] modify MC62-G40-00 devmap to add pcie sensor		
15	B	[Merge] add SCP_VER sensor at MP62 devmap.		
16	B	[Merge]merge V12_rc r4957;r5008;r5036;r5064 and some lost code for showing AMPR_SCP_VERSION.		
17	F	[feature] add MB21-CE0 devmap sku		
18	B	[defect] Send post code to CPLD		
19	F	[feature] Add function for check platform is Ampere by platrom tag.		
20	B	[defect] Add reset and shutdown function for cpu		
13.01.28(2021/07/09)				P3
1	B	[defect] Fix preserve configuration fail when update BMC FW.		

2	B	[defect] change GPIO access method		
3	B	[defect] Fix ROT recovery alert email not send on AC cycle, deley scan Recovery 3 minute		
13.01.27(2021/07/05)				P3
1	F	[feature] fix PSU show webui and power off AC power loss policy		
2	F	[feature] change the HIC_TEMP upper critical and upper non-critical value		
3	B	[defect]modify MZF2-AC0-00 devmap		
4	F	[feature] fix PSU show webui and power off AC power loss policy		
5	F	[feature] change the HIC_TEMP upper critical and upper non-critical value		
6	B	[defect] Fix i2c master failed to RX error.		
7	B	[defect] merge r1286, r4417 from trunk. fix unique password problem.		
8	B	[defect] Set MP62 ME not support		
9	B	[defect]modify fan table		
13.01.26(2021/07/02)				P3
1	B	[defect] Preserve uboot env settings when boot location size change.		
2	B	[defect] Modify KVM vmedia max CD/HDD count to 1.		
3	F	[feature] update bmcprog deamon		
4	F	[feature]Add group for update SKU without BSN, CSN, AssetTag and Mac		
5	B	[defect] support two buses for raid card used		
6	B	[defect] support multiple layers for RAID card (to 8 layers)		
7	B	[defect] Merge V12 code base performs the action of OEM power reading.		
13.01.25(2021/06/24)				P3
1	B	[defect] Fix to boot/conf location size change which cause jffs2 error and env block abormal when update BMC FW.		
2	F	[feature] set otp value for A2 and A3		
3	B	[defect] Add retry mechanism to aviod eeprom read error.		
4	B	[defect] fix mantis #48536, PSU fru data lost problem.		
13.01.24(2021/06/17)				P3
1	B	[defect] ip and portfirewall timestamp problem.		
2	B	[defect] unable to play/download video on host reset		
3	B	[defect] support SOL recorded video for Web SOL		
13.01.23(2021/06/10)				P3
1	B	[defect] add raid info for MC62-G40-00.		
2	B	[defect] Fix "Sensor Type: OEM" with "Sensor Number: All Sensors" can't send OEM Email in WEB		
3	F	[feature] add support of AST2600 A3 chip.		
4	F	[feature] add buzzer support.		

13.01.22(2021/06/03)				P3
1	B	[defect] reduce memory usage of Redfish smbios.		
2	B	[defect] Temporarily disable unlimited features.		
3	B	[defect] Automatically restart when lighttpd is closed.		
4	B	[defect] AMI solution - Fix H5Viewer issues due to intensive throttling.		
5	B	[defect] fixed fan sensor show no reading and can not control problem.		
6	B	[defect] Support flash W25Q256JWEIQ.		
7	F	[feature] add FSC for MC62-G40-00.		
8	F	[feature] add nct7802y fan driver.		
9	B	[defect] Fixed can not unlock SCU for ast2600-A3		
10	B	[defect] porting V12 code to fix webui Threshold value.		
11	B	[defect] Modify the frequency of PWM7 output to 2731hz.		
12	B	[defect] Erase uboot env section in BMC backup SPI when doing BMC backup or auto backup		
13	B	[defect] Read BIOS flash data back to check writed data. Its workaound solution about Aspeed 2600A1 Errata#65*		
14	B	[defect] Still clean bios update status after update finished		
15	B	[defect] reduce memory usage of Redfish smbios.		
16	B	[defect] Change OEM type from 0xC1(193) to 0xC0(192), and use Sensor name to identify the OEM type (0xC0~0xCF).		
17	B	[defect] set pwm7 default duty is 0.		
13.01.21(2021/05/27)				P3
1	B	Add comments for commit 34db73af.		
2	B	[defect] add lost code of commit e73b6665		
3	B	[defect]BPB CPLD version issue		
4	B	[defect] Modify the SDR used by G492-Z52-00.		
5	B	[defect] Modify the SDR and critical value used by G492-Z52-00.		
6	B	[defect] imporve memory usage of Redfish smbios		
7	B	[defect] modify the webui error msg that the raid operation failed.		
8	B	[defect] Add front io board inlet temp.		
9	B	[defect] Modify M12-HD6 device map		
10	B	Revert "[defect] Modify G242-Z12-00 fanprofile and MB name."		
11	B	Revert "[Defect] Modify MZ12-HD6		
12	F	[feature] Update gigaflash to 1.7.5		
13	B	[defect] Modify G242-Z12-00 fanprofile and MB name.		
14	B	[Defect] Modify MZ12-HD6		

15	B	[merge] merge AMI code base. Entering 'packages/ast2600' : c70c1708e0b812feb0fb4a2b35b19a88e0443535 (HEAD -> LTS-v13		
16	B	[defect]modify MP62-HD0		
17	B	[defect] fix mantis #48227		
18	F	[feature] Add rx delay support for RTL8211F.		
19	B	[defect] add GPU temp for MZF2.		
20	B	[defect] update G492-H80 FSC.		
21	B	[defect]1.fix NVSwitch sensor number 2.reduce some sensor.		
22	B	[defect] MH62 system add OCP temp sensor.		
23	B	[defect] Change product name format for MR93-FS0 platform		
24	B	[defect] Add new devmap and sku for MR93-FS0 platform		
13.01.20(2021/05/21)				P3
1	F	[redfish][feature] Support redfish simpleupdate bios		
13.01.19(2021/05/20)				P3
1	B	[defect] Fix hang starting kernel issue when BMC and BIOS reboot at the same time.		
2	F	[feature]Add restful API ROT update golden BIOS function.		
3	B	[defect] fix mantis #48152, ikvm language not match problem.		
4	F	[feature]change interface1 to DEDCIATE and interface2 to SHARED		
5	B	[defect] Fixed CPU temp and CPU DTS show incorrect data when PECI can not access.		
6	B	[defect] Read flash data back to check writed data. Its workaound solution about Aspeed 2600-A1 Errata#65		
13.01.18(2021/05/14)				P3
1	B	fix problems caused when operating raid.		
2	B	[feature] update the G292-280 8 GPU sensor		
3	B	[Defect] Add sensor P12V to default device map. (Because can not boot bmc when device map is empty)		
4	B	[defect] Remove BPB CPLD invalid log.		
5	B	[defect] add G492-ID0 FSC		
6	B	[defect] Fix mantis #47591		
7	B	[defect] add raid info for MZF2-AC0-00.		
8	B	[defect] Modify tag <AST2500> to <AST2600>		
9	B	[defect] Fix mantis #48143		
10	B	[Defect]Fixed "Flash Type show BIOS when upload BMC firmware and update procress will hang up at veritying stage". Reassign file name when file name is null and update bmc by tftp.		

11	B	[defect]fix error msg[code: 1231] showing when enter video log page		
12	F	[feature] add MW34-SP0 devmap		
13	B	[defect] modify sensor name for MZF2-AC0-00.		
14	B	[defect] Fix mantis #48149		
15	B	[Merge] Merge v12.2 gbt_module to v13. (r4806): remove useless sharemem-related log		
16	B	[defect] moodify MD72-HB2 sensor		
17	B	[merge] merge AMI code base. Entering 'packages/ast2600' : c70c1708e0b812feb0fb4a2b35b19a88e0443535 (HEAD -> LTS-v13		
18	B	[defect]modify MD72 devmaps CPU status pin for 2600.		
19	B	[defect]fix H262-NO1 sensor		
20	B	[defect] Adjust fixed count to 1.		
21	B	[defect] 1. Add OCP RAID info for MH62-HD1. 2. Sync to system project.		
13.01.17(2021/05/06)				P3
1	B	[defect] Fix webUI abnormal display when get/set power consumption.		
2	B	[defect] add web ui show cmc ip in node bmc		
3	B	[defect] Merge v12.2 r3261. (Fix the ipmimain crash issue when the IPMB command stuck.)		
4	B	[defect] merge v12.2 r810. (Since logrotate in crontab does not work properly, the additional log manager is added to limit the file size of log files.)		
5	B	[Merge] Merge v12.2 gbt_module to v13. (r4644): [defect] add pointer reset to avoid sharememory double free problem.		
6	B	Merge code from CommonRTP1.8_rc: [redfish] recover url: UpdateService.BMCFwUpdate, user can select different uploadselector(image1/image2/both/autoinactive) for dual image bmc update		
7	B	[defect] 1. Modify BMC/BIOS backup fail/success to email format. 2. Modify BMC/BIOS update image fail/success to email format.		
8	F	[feature] Remove IPMIMain restart SEL log support, it has been record in system log.		
9	F	[feature] add watchdog in SDR record		
10	B	[defect] fix SOL File Information datetime		
11	F	[feature] Adjust higher MDI voltage on MG62-G41-00		
12	B	[defect] fix error msg showing when open KVM and remove video record at the same time on webui		
13.01.16(2021/04/28)				P3

1	B	[defect] Revert MAX_PENDING_BRIDGE_RES modify.		
2	B	[defect] Send recovery SEL log no matter what is system power state		
3	B	[defect] Support ROT on R182-NA1-00		
4	B	[defect] Modify HDD temp for E162-220-00.		
5	F	[feature] Add media redirection support http mount iso feature.		
6	B	[defect] Modify ADC sensor name for MZF2.		
7	B	[redfish] read bmc2 version from /proc/ractrends/Helper/FwInfo2		
13.01.15(2021/04/26)				P3
1	B	[defect] Set timezone default UTC+0.		
2	B	[defect] merge AMI patch 689 "Fix for IPMIMain will restart with power on/off stress within 50 times".		
3	B	[defect] Fix get backup FW version error.		
4	B	[defect] Fix webui sensor chart display abnormal.		
5	B	[defect] Hide HPM update function.		
6	B	[defect] Prevent the session will not timeout when calling this API (Merge from channel r324).		
7	B	[defect]force authentication cmd return not support when platform is not ROT.		
8	B	[remove feature] Altera CPLD update function is unstable, so disable it for now.		
9	B	[defect] Merge r1700 from V12:[feature] Add recovery notify and PEF setting.		
10	F	[feature] add feature of dump BIOS image.		
11	B	[defect] Merge r2341 from V12:[defect] Update service non-secure/secure port.		
12	B	[defect] Not support verify all of force authentication temporarily.		
13	F	[feature] Add ipmi command for force authentication bmc/bios support		
14	B	[defect]Fixed Login LDAP/AD/RADIUS and click profile then show wrong page.		
15	B	[defect] Fix SOL function can not record file when time offset not equal 0.		
16	B	[defect] disable NTP Date&Time function by default		
17	B	[defect] adjust ME update interval to avoid frequently access ME affect IPMI crash		
13.01.13(2021/04/19)				P3
1	B	[defect] Fix the language is incorrect in the login page.		
2	B	[defect] Fix PECI sensor is not work for AST2600		
3	B	[defect]add back webUI RAID management check.		

4	B	[defect] add back bios switch cmd for BIOS team test.		
5	B	[Defect]merge ami patch fixed cannot mount image.		
6	B	[Merge] merge ami 501 "Fix for Unable to load native library using Oracle Java WebStart"		
7	B	[Merge] merge AMI patch 689 "Fix for IPMIMain will restart with power on/off stress within 50 times"		
8		[Defect] Fixed auto vedio function can not record file when time offset not equal 0.		
9	B	[defect] Fix 'Australia/North' doesn't have red dot		
10	B	[Defect] Fix 'Asia/Chongqing' doesn't have red dot		
11	B	[defect] 1. save Automatic NTP Date & Time. 2. After refreshing the Date & Time page, it can successfully show the red dots on the mapgit		
13.01.12(2021/04/12)				P3
1	B	[defect] fix redfish bootsource Once/UefiShell issue		
2	B	[defect 47423 47424 47583] Fixed unable to setup config for user16.		
3	B	[defect 47460 47445 46954] Remove local media function.		
4	B	[defect 47466] Fixed filter date problem on system/audit/video log page.		
5	B	[defect] Fix PSU's chassis and board info can't hidden		
6	B	[defect] Hide empty FRU items.		
7	B	[defect] 1.Recovery sel log is not added after BMC recovery. 2.update flag won't remove when CPLD update fail.		
8	B	[Defect]Fixed OEM privilege is ADMIN privilege		
9	F	[Feature] Update gigaflash version to v1.7.4		
10	B	Fixed WebUI Active Redirections page doesn't display Client IP.		
13.01.11(2021/04/06)				P3
1	B	[defect] Fix FRU lost after factory reset		
2	B	[defect] Fix for UBOOT ENV variables not preserved while performing HPM update from IPMITOOL in dual image.		
3	B	[defect] Fix status LED abnormal.		
4	B	[defect 47027] Add the unlimited timeout case for kvm service.		
5	B	[defect 46626 47035] Fixed SEL problem when clear or fill up.		
6	B	[defect] Fix VGA screen abnormal after AC power on		
7	B	[defect] Set default AC lost is last status.		
8	F	[feature] add oem command to switch CPU ITP JTAG to BMC/SDP		
13.01.10(2021/03/18)				P3
1	B	[defect] Fix AMD BIOS cannot communicate with BMC		
2	B	[defect 46888] Fixed empty cache information on CPU Inventory page.		

3	B	[defect 44989 47025] Fixed sensor name problem and synchronize event log page from V12.		
4	B	[defect 46946] Fixed select language problem when login to main page.		
5	B	[defect 47028] Update user config.		
6	B	[feature] Support update BPB CPLD by JTAG		
7	F	[feature] to show RAID CARD info in RAID Management		
13.01.09(2021/03/04)				P3
1	B	[defect 0046934 0046935] Add download logs function on system and audit log page.		
2	B	[defect 0046648 0044202] Fix get M/B PCB version fail.		
3	B	[defect 0046720] Fix SYS_POWER reading error for E162-220-00.		
4	B	[defect 0046904] Fix abnormal CPU thermal trip sel log for E162-220-00.		
5	B	[defect 0046811] Fix getting Manufacturer/Product ID error via ipmitool mc info.		
6	B	[defect 0046947] Enable circular sel.		
7	B	[defect 0046886] Add date time information.		
8	B	[defect 0046889] Fix atuo enable Sync button.		
9	B	[defect 0046807] Fix count of event logs error problem.		
10	B	[defect 0046945] Fixed configure PEF failed.		
11	B	[defect 0046808] Update PEF config.		
12	B	[defect 0046891] Fix sensor reading value which set to second decimal place.		
13	B	[defect] Fix RAID Mangement display device info error and merge revision(s) 4259, 4254, 4151, 4101 from v12.2_rc		
14	B	[dafect] Update GeneratorID from decimal to hexadecimal.		
15	B	[defect] fix M.2 temp sensor name not mapping motherboard address problem.		
16	B	[defect] Fixed Fan not full duty when bmc reboot.		
17	B	[defect] fixed fan cannot control and fan read value incorrect.		
18	B	[defect] Change SVID settings from 0x31112B14 to 0x10001458.		
13.01.08(2021/02/19)				
1	B	[defect] Fix ID LED not working.		
13.01.07(2021/02/17)				P3
1	B	[defect] Fix iKVM display abnormal sometimes.		
2	B	[defect] Adjust I2C hold time of master/slave data.		
3	B	[defect] Modify PCI Sub-System/Sub-Vendor ID settings.		

4	F	[merge] Update AMI v13 code base. (branch LTS-v13 61902547b50e2bd7f800ac5ebaa0b933c6308a16)		
5	B	[defect] Remove eSPI/LPC settings in kernel dts, eSPI/LPC mode control by GPIOZ4.		
6	B	[defect] Fix update BMC FW fail when enable dual image settings.		
7	B	[defect] Change SEL log filename extension to csv.		
8	F	[feature]add rtc interface to get/set rtc time by kernel driver.		
9	B	[defect] Fix AMI OEM command Send PLDM Message not working		
10	B	[defect] Support master read/write after bus 8.		
11	B	[defect] disable EEE LED on MLAN port		
13.01.06(2021/01/25)				P3
1	B	[defect] Fix AMI OEM command Send PLDM Message not working		
2	F	[feature] Support Dual/RoT image feature.		
3	F	[feature] Add support of creating HPM image for BMC		
4	F	[feature] Add bonding support for NCSI and MLAN		
13.01.05(2021/01/07)				P3
1	B	[defect] Fix BIOS crash upon BMC reset.		
2	F	[feature] Update BMC partition table.		
13.01.04(2020/12/18)				P3
1	B	[merge] Update AMI v13 code base.		
2	B	[defect] Adjust channel of ADC sensor for ME62-GE0.		
3	B	[defect] JTAG base address adjust to JTAG Master 2.		
4	F	[feature] Support RAID card feature for v13.		
5	B	[defect] Fix mantis #45337, set ipmi channel 3 as KCS.		
6	B	[defect] Remove unused code, and modify some variables.		
7	B	[defect] Fix mantis #45333, lan set auth problem.		
8	B	[redfish][defect] Fix power cycle can't power on issue.		
1	B	[merge] Update AMI v13 code base.		
13.01.03(2020/12/04)				P3
1	F	[feature] Enable serial over lan (SOL) feature.		
2	B	[defect] Fix gsm2json error message when power on.		
3	B	[defect] Fix VGA display issue upon AC on.		
13.01.02(2020/11/27)				P3
1	B	[defect] Fix WebUI update BPB_CPLD slow issue.		
2	B	[defect] Change filename parser by referring v12, to fix GbtUtility update fail problem.		
3	B	[defect] Hide ikvm video Host Display, Relative Mouse Mode button.		

4	B	[defect] Remove check GPIOG0 pin status when adjust eSPI drivin strength on uboot.		
5	F	[Merge] Merge -r3613 from CommonRTP1.8: [redfish][defect] fix: redfish output of some smbios-related urls will not show the latest content.		
6	F	[Merge] Merge -r3598 from CommonRTP1.7: [redfish][defect] fix: redfish can not get raid physic/logic device info		
13.01.01(2020/11/13)				P3
1	F	[Merge] Merge v12.2 gbt_module to v13. (r3022-r3587)		
2	F	[feature] Support update MB CPLD via JTAG for Altera, Enable update BPB/MB CPLD function in WebUI.		
3	F	[feature] Add pure code (CPLD Firmware update via JTAG for Altera)		
4	F	[feature] Add http redirect to https.		
5	B	[defect] Temporarily add mount API for GbtUtility.		
6	B	[defect] Virtual media default use normal mode, prevent fail due to received data doesn't have 'image_redirection'.		
7	F	[feature] Add NCSI support and disable network bonding support in PRJ		
8	B	[defect] Hide bios settings menu button.		
9	B	[redfish][defect] fix: if fwupdate error because of get wrong image filesize, the key FWUpdateInProgress will not be unlocked.		
10	B	[redfish][defect] fix: init SNMP status with wrong value		
11	F	[redfish] Merge r3193~r3196 r3531 from CommonRTP1.8		
12	B	[redfish][defect] fix: url of CD1 disappeared after sync-helpers		
13	B	[redfish][defect] fix: crash page of CompositionService/ResourceZones/1		
14	B	[redfish][defect] fix: can not PATCH NTPService with redfish		
15	B	[redfish][defect] Can't get Fanprofile part has been fixed.		
16	B	[redfish][defect] Fixed crash page for telemetry entry log service		
13.00.09(2020/10/30)				P3
1	B	[defect] Remove sgpio sensor for ME62 and MG62.		
2	F	[feature] Enable sgpio settings in kernel, Modify sgpio sensor and driver for AST2600.		
3	B	[defect] Remove test code in commit 52dbad5b.		
4	B	[defect] Move ldap file info to a new separate API.		
5	B	[defect] Disabled extended log function.		
6	B	[defect] Disabled PTP function.		
7	B	[defect] Follow V12 modification, change the URL from '/settings/dns-info' to '/settings/dns'.		

8	B	[defect] Fix P_5V, P_5V_STBY not correct problem, P_5V_STBY not correct problem.		
9	B	[defect] Modify P_5V_2600, P_VDDQ_2600 SDR for MG62-G41.		
10	B	[defect] modify ME62-GE0-00, E162-220-00 devmap for TM5.sdr change for MG62's HW.		
11	B	[defect] Modify G492-H82-00 MG62-G41-00 devmap file to meet EE request.		
12	B	[defect] Fix host_spi_flash_hw will be deleted when open MDS.		
13	F	[feature] Support update BIOS feature.		
14	B	[defect] Remove unused function or process on AST2600 design.		
15	B	[defect] Add send_ipmi_cmd function to replace ipmi_raw script.		
16	B	[defect] Upgrade Redfish to v1.8a.		
13.00.08(2020/10/30)				P3
1	B	[defect] Don't lock SCU register, there is no side effect on it which has been proved by ASPEED.		
2	B	[defect] Add delay time for power cycle interval to avoid power on function isn't work.		
3	B	[defect] Move user_id to a new separate API from session API, prevent GbtUtility login errors.		
4	B	[defect] Change the BMC ID to the correct ID of AST2600.		
13.00.07(2020/10/19)				P3
1	F	[merge] Merge the old webui from 2020/07/29 to 2020/09/30.		
2	B	[defect] Fix iKVM no display error.		
3	F	[feature] add uboot patch for enabling gpio pass through.		
4	F	[feature] Add Get Case Open Status ipmi commnad		
5	F	[Merge] Update Redfish from AMI code base LTS_v13_update1.		
6	F	[Merge] Update AMI code base LTS_v13_update1		
7	B	[defect] Activate CR function for E162-220-00.		
8	B	[defect] fixed ACPI Shutdown problem.		
9	B	[defect] Add PSU status sensor for E162-220-00.		
10	B	[defect] Fix MX66L1G45G flash erase error through skurw.		
11	B	[defect] Fix CPUx_status sensor error for whitley platform.		
12	F	[feature] merge smbios webui		
13	B	[defect] Remove pca9548 reset function. Reference commit fe6611b6.		
14	B	[defect] Add retry mechanism in eeprom read function to avoid SKU.xml extraction problem.		
15	B	[defect] Update spx_restservice some files authority.		

16	B	[defect] Fix MLAN Led abnormal issue		
17	F	[feature] Add update BIOS/CPLD function in Web UI.		
13.00.06(2020/09/28)				P3
1	B	[defect] Check GPIOG0 pin status to adjust eSPI driving strength.		
2	F	[feature] Add uboot patch for CVE-2019-6260 settings and modify registers to avoid monitor no display.		
3	F	[feature] Add PSU status sensor for ME62-GE0-00.		
4	B	Update upsku.sh authority.		
5	F	[feature] Add update sku 2.0 function.		
6	F	[feature] Merge some files of spx_restservice from V12 about update function.		
7	F	[feature] merge power consumption webui		
8	B	[defect] fix devmap G492-H82-00 error		
9	B	[defect] set E162-220-00 chassis policy state.		
10	F	[feature] add E162-220-00 SKU/devmap/fan profile.		
11	B	[defect] Modify fw version to 6 digits.		
12	F	add skugen2 for AST2600		
13	B	[defect] disable temporarily to avoid monitor no display		
13.00.05(2020/09/18)				P3
1	B	[defect] modify devmap for G492-H82-00 add VR_VCCSA_P0_IO		
2	B	[defect] fix G492-H82-00 PCH Temp		
3	B	[defect] Modify VBAT 3.3V for ASP2600		
4	B	[defect] change G492-H82-00 sensors monitor interval		
5	F	[feature] Add PSU1 to PSU3 FRU support.		
6	F	[feature] Add G492-H82-00.xml devmap file		
7	B	[defect] update MG62-G41-00 devmap		
8	F	[feature] add redfish feature support		
9	B	[defect] Fix make MDS spx-packages error.		
10	F	[feature] Enable ping function		
11	B	[defect] Fix M2_TEMP sensor error for ME62-GE0-00.		
12	B	[defect] Fix GPIO interrupt initial error and add IDLED_BTN function.		
13	F	[Merge] Update AMI code base to v13-update-0.04 (08/27/2020).		
14	F	[Merge] Merge code v12.2 gbt_module to v13 (r2352-r3021).		
15	B	[defect] Adjust eSPI driving strength on uboot.		
16	B	[defect] fix cannot get SMBIOS		
17	B	[defect] modify PSU1 slave addr to fix PSU temperature abnormal issue		

18	B	[defect] Fix FAN control and display error, add PSU inlet ambient sensor and modify siwtch IC sensor name for ME62-GE0-00.		
19	B	[defect] Modify API of GPIOPx pass-through settings.		
20	B	[defect] update the ME scan interval avoid ME busy		
21	B	[defect] fix ipmi crash issue when the ME sensor is enabled		
22	B	[defect] remove previous workaround solution		
23	B	[defect] merge lost code from v12		
24	B	[defect] Add VR sensor for ME62-GE0-00.		
25	B	[defect] Add API to Enable/Disable GPIOPx pass-through settings.		
26	F	[feature] Add control chassis identify LED function from V12.		
27	B	remove 2500 device map and fanprofile		
28	B	Revert "[feature] Set SCU340 bit 28 RGMIICK pad direction to input mode."		
13.00.04(2020/09/04)				P3
1	B	[defect] Modify private.pem and public.pem for image signing tool.		
2	B	[defect] Adjust flash size.		
3	B	[defect] Enable GPIOPx pass-through settings in kernel and modify GPIO initialization settings in chassis.c.		
4	B	[defect] workaround ipmistack crash issue and remove unnecessary code.		
5	B	[defect] fan profile lost commit file		
6	F	[feature] Set SCU340 bit 28 RGMIICK pad direction to input mode.		
7	F	[feature] Add display port support.		
8	B	[defect] web ui update failed !! because of mount dir on /conf/, solution : remove commit 47ab14ef651df310a04ba3f2b49cd3ec9971019b and change all /conf/BMC1/wolfpass path to /conf/BMC1/ast2600evb_ami		
9	B	[defect] fix IPMB not woring and add new devmap on whitley platform		
10	F	[feature] merge fanprofile webui from V12		
11	F	[feature] merge fanprofile's rest api from V12		
12	B	[defect] fanprofile's define file path can not found		
13	B	[defect] V13's http server Content-Security-Policy header setting cause blowser block gigabyte modify webui		
14	B	[defect] Enable BMC initialization settings in gbt_cb.c		
15	B	[defect] adjust S10gbt-init.sh file path.		
16	B	[defect] fix BIOS com port abnormal issue		
17	B	Merge v12 code to v13 - r2355,r1500,r1651,r1809,r1400,r1481,r1798,r2356,r1090,r1956,r2272,r1483		

13.00.03(2020/08/20)				P3
1	B	[defect] Fix ADC sensor reading error on chnl 7~15.		
2	F	[feature] Update AMI code base to v13-update-0.03.		
3	B	[defect] Adjust GPIO pin number settings for AST2600 common I/O design.		
4	B	[defect] Disable GPIOP0~5 pass-through settings in kernel deivce tree.		
5	F	[feature] Add sign image support.		
6	B	[Merge] merge v12 r1574 - For version NA problem, this command fixed all ready response to let BIOS skip waittiong. (Reference Redfish r1573)		
13.00.02(2020/07/22)				P3
1	B	[defect] Fix MLAN function.		
2	B	[defect] Disable MDIO and MDC setting in uboot.		
3	B	[defect] Modify default user password for Web UI login		
4	F	[feature] Remove change password feature after login to web ui for the first time.		
13.00.01(2020/07/14)				P3
1	F	[feature] Update multi pin settings in kernel device tree and u-boot.		

Known Issue

No.	Type	Issue Description	Note
1	B	The Web & gbtipmitool have PEF Alert Policies save issue with the error 'Invalid Variable Type Received'.	Bug in v13.06.27